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CLARK FORK DATA SYSTEM

REFERENCE

VOLUME I: CLARK FORK DATA MANAGEMENT SYSTEM

Prepared by:

MONTANA DEPARTMENT OF HEALTH
AND ENVIRONMENTAL SCIENCES

SOLID AND HAZARDOUS WASTE BUREAU

Revised September 1992

INTRODUCTION

The *Clark Fork Data System Reference* is intended to provide detailed information regarding the structure of the Clark Fork Data Management System and Geographic Information System in order to facilitate the transfer of data to and from external data systems.

Volume I of the *Reference* concentrates on the Clark Fork Data Management System (CFDMS), providing detailed compatibility specifications, specifications for coding data for entry into the system, and a list of reference codes used. The bulk of Volume I is a comprehensive data dictionary, providing a description of the tables comprising the data management system and the fields comprising each table. Volume II, if deemed necessary, will provide similar information relative to the Clark Fork Geographic Information System (CFGIS).

Updates and additions to the *Reference* will be circulated to all who have received copies directly from the Montana Department of Health and Environmental Sciences (MDHES). If you have obtained a copy of the *Reference* from another source and would like to receive updates and additions, or if your address has changed since receiving the *Reference*, please provide the information below to:

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Clark Fork Data System Manager
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Helena, MT 59620

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CLARK FORK DATA SYSTEM REFERENCE

SECTION I - SYSTEM DOCUMENTATION

SEPTEMBER 1992

The Clark Fork Data System (CFDS) is comprised of two components: the Clark Fork Data Management System (CFDMS), in which chemical, physical and biological analytical data from the region are integrated, and the Clark Fork Geographic Information System (CFGIS), which provides spatial analysis and mapping capabilities. CFDS reference material consists of three principal documents: the *Clark Fork Data System Project Plan*; the *Clark Fork Data System User Guide*; and the *Clark Fork Data System Technical Reference*.

1 CLARK FORK DATA SYSTEM PROJECT PLAN

The *CFDS Project Plan* is primarily an internal document which defines the scope of the project, the functions of agencies and organizations involved, system configuration, data administration, system and data access, user support and training, proposed applications and project budget. Although the *Plan* is an internal document, some of which is not appropriate for general distribution, much of the document may provide useful information to project management staff and technical staff. Certain sections of the *Plan* have therefore historically been reproduced in the *CFDS Reference*. However, in order to reduce the bulk of the *Reference*, excerpts from the *Plan* have been eliminated from this version. The *Plan* is a single volume addressing both the CFDMS and CFGIS components of the CFDS. Copies of the *CFDS Project Plan* may be obtained through the Clark Fork Data System Administrator.

2 CLARK FORK DATA SYSTEM USER GUIDE (available late 1992)

The *CFDS Guide* is intended primarily for use by management level personnel. The *Guide* provides a brief description of the system, instructions for gaining access to the system or system data, and general guidelines for transfer of data to the system. General information intended for management staff use formerly covered in the *CFDS Reference* is now covered here.

3 CLARK FORK DATA SYSTEM TECHNICAL REFERENCE

The *CFDS Reference* is a detailed manual for use by technical staff who will actually format data for transfer to the CFDS or will receive machine readable data from the CFDS for import into in-house data systems. The revised document is limited strictly to the technical information necessary to achieve import and export to/from external systems. Formerly a single document addressing both the CFDMS and CFGIS, the *Reference* is now split into two volumes, as technical specifications are lengthy and a given consultant may not deal with both components of the data system.

4 OTHER SYSTEM DOCUMENTATION

4.1 CLARK FORK SUPERFUND SITE INVESTIGATIONS DATA VALIDATION/ DATA MANAGEMENT/DATA ASSESSMENT PLAN

Much of the structure of the CFDMS is dictated by the data flows, activities, and data stores described in this document. Additionally, much of what formerly comprised Section II.D

(Level A/B Review) and Section II.E (Data Validation and Assessment) of the *CFDS Reference* is now covered in this document.

4.2 CLARK FORK SUPERFUND SITE INVESTIGATIONS PILOT DATA REPORT

The CFDMS is intended to be a direct reflection of the data summarized in each data summary report. The *CFSSI Pilot Data Report* specifies the extent and format of data to be reported in each data summary report and subsequently transferred to the CFDMS.

4.3 DATA ACQUISITION STATUS

A summary of data available through the two components of the data system is available. The CFDMS summary is periodically produced in hardcopy and distributed to project staff. The hard copy summary or a machine readable file (in WordPerfect, Knowledgeman, dBASE, or ASCII format) is available from the data system administrator. The CFGIS summary is not now routinely produced in hardcopy, but is available from the CFGIS coordinator. Periodic summaries will be submitted to GeoResearch (GRI) in a yet to be defined format for inclusion in the GRI BBS, now being set up for access by ARCO contractors.

4.4 QUARTERLY REPORTS

Quarterly reports of CFDMS and CFGIS activities are prepared for submittal to MDHES, EPA and ARCO management. Copies of reports are available from the data system administrator.

4.5 FACT SHEETS

Fact sheets relating to various aspects of geographic information systems are available through the CFGIS coordinator.

CLARK FORK DATA SYSTEM REFERENCE

SECTION II.A - CFDMS COMPATIBILITY SPECIFICATIONS

SEPTEMBER 1992

The State of Montana Department of Health and Environmental Sciences has selected the Environmental Information System (EIS) for use in fulfilling the data management objectives with respect to the Upper Clark Fork River Superfund Sites. The EIS is a set of table, form, and program files developed by M. D. Swayne (Environmental Systems Corporation, Redmond, WA) that implements data, integrity and operator models. The EIS provides: a data model appropriate to managing a wide variety of environmentally related information, an implementation of this model using a modern data base engine in a personal computer environment, and an operator interface which facilitates routine data management tasks such as data entry, import, export, retrieval, reporting and integrity checking.

1 SYSTEM COMPATIBILITY

It is important that organizations collecting data destined for the Clark Fork Data System and/or desiring to use Clark Fork Data System data develop or use a compatible data management function.

Compatibility can be defined with respect to three levels:

1. Data model definition
2. Data model implementation
3. Operator interface

Compatibility at the data model definition level is required. Compatibility at the data model implementation and operator interface levels provides greater utility and efficiency but is not required.

2 EIS DATA MODEL DEFINITION COMPATIBILITY

Compatibility with respect to EIS data model definitions is required to ensure that data is defined in the same manner to ensure accurate, explicit and efficient data transfer. The following is a list of EIS data models together with compatibility requirements:

2.1 CONCEPTUAL MODEL - RELATIONAL DATA BASE

The relational data model is the overall conceptual data structuring device for the EIS. Other conceptual data models, such as hierarchical or network models, that use pointers to link records, are not directly compatible with the EIS. Data communication between relational and non-relational systems requires restructuring which can be tedious and time consuming.

2.2 SUBJECT DATA MODELS - RELATIONAL TABLES

The EIS defines subject environmental data models within the relational data model framework. Subject data is required to be organized and stored according to one or more of the following subject models. Data that are organized into different relational structures will require reorganization into the following before communication is possible.

- Hydrologic Units - USGS/WRC
- Surface water reaches - EPA/USGS
- Environmental surveys - EIS ID codes *
- Environmental stations - EIS ID codes *
- Environmental samples - EIS ID codes *
- Environmental sub-samples - EIS ID codes *
- Environmental field data - EIS ID codes *
- Environmental lab data - EIS ID codes *
- Data validation data - EIS ID codes *
- Documents - EIS ID codes
- Coded field values - EIS codes

* All EIS tables have been modified to accept data coded as recommended in the *Clark Fork Superfund Site Investigations Data Validation/ Data Management/ Data Assessment Plan*, and the *Standard Operating Procedure for the Identification of Samples and Individual Analytical Results*.

Detailed specifications of each subject table are provided herein in the form of table (relation) and field (attribute) definitions. Form (data coding and screen display) definitions are available from the data system administrator. The evolving nature of the data system causes these table, form and field definitions to become obsolete over time. Prior to developing a data base in accordance with the specifications set forth herein, or coding data for inclusion in the CFDMS, current information should be obtained from the data system administrator.

2.3 DATA INTEGRITY MODEL

The data integrity model implements the integrity requirements of the relational model by defining: domain names for fields, valid domain values or ranges for fields, and field coding instructions. The most important aspect from a data communication aspect is that each system use the same domains from which attribute values are drawn. For example, if a field in each of two system has the same intended purpose but each uses coded values that are drawn from two different domains for which a one-to-one correspondence cannot be established by adding values to one of the domains, then it will be impossible to communicate data for this field between the systems and still maintain integrity.

Data integrity is systematically checked by the data system. However, it is desirable that data imported into the system have been previously checked to reduced the iterations required to establish integrity. Any data not found to have integrity will be flagged as unusable. Fields and field values that refer to domain names or domain values not defined require the data system administrator to contact the data originator to make changes. Data that do not conform to the integrity model will not pass the integrity checks and cannot be made available for retrieval.

3 DATA MODEL IMPLEMENTATION COMPATIBILITY

The EIS data model is implemented using a standard relational data base engine called Knowledgeman/2 v3.00 (Micro Data Base Systems, Inc., Lafayette, IN), which runs on IBM PC compatible computers under PCDOS. It is not required that the data model be implemented using the EIS or Knowledgeman; however, absolute compatibility can be achieved through implementation using the EIS and Knowledgeman/2, both of which are available commercially.

It is required at this time that the data models be implemented in an operating system environment capable of importing and exporting PCDOS compatible relational table files in any of the following formats:

3.1 REQUIRED EXPORT CAPABILITY

- KMan table files, or
- ASCII files (variable columns, any unique character delimiter, with one line corresponding to one record), or
- DIF files, or
- BASIC Compatible files, or
- Unquoted ASCII files, or
- SDF files (fixed columns, no delimiter, one line corresponds to a record), or
- SYLK files (Multiplan format), or
- WKS (Lotus 123 v1, v1A, or v2 binary files), or
- dBASE III or dBASE IV table files.

3.2 REQUIRED IMPORT CAPABILITY

- KMan table files, or
- ASCII files (one field/expression value per line, strings quoted, and records delimited by blank lines), or

- DIF (Data Interchange Format) files (see Technical note SATN-10, 1980, Software Arts, Inc.), or

- BASIC files (Logicals equal 1 for TRUE and 0 for FALSE, strings are double quoted, numbers have leading blank for positive values and leading minus sign for negative values, data values are delimited by commas), or

- Unquoted ASCII files (one field/expression value per line, strings unquoted, and records delimited by blank lines), or

- ASCII files (variable columns, any unique character delimiter, with one line corresponding to one record), or

- SDF files (fixed columns, no delimiter, one line corresponds to a record), or

- SYLK files (strings enclosed in a matching pair of double quotes, numbers unchanged, logicals as unquoted string TRUE of FALSE), or

- DBF files (dBASE III or IV format).

4 OPERATOR INTERFACE COMPATIBILITY

The operator interface is implemented using the Knowledgeman data base facilities and procedural language. It is not required that a compatible operator interface be developed. However, an EIS data model compatible operator interface has been implemented using Knowledgeman/2, both of which are available commercially.

5 COMPATIBILITY TOOLS

The following reference material is included elsewhere in this Reference:

General Form Coding Instructions - Section II.B
Table Specific Form Coding Instructions - Section II.B
Tables of acceptable values for all coded fields - Section II.C

Coding forms are available from the data system administrator.

Compatibility can be established manually during the data collection phase by using the data system coding forms and these instructions. These forms and instructions follow the data system structure and definitions, hence their use ensures relational and subject data model compatibility. The data on these forms can then be manually communicated to the data system and entered, if the volume of data is minimal and DHES agrees to perform the data entry.

If the data collection contract or order calls for communication of the data in machine readable format, the agency or organization collecting the data can either develop an implementation that conforms to the data system relational and subject data models or has the ability to convert data to this structure prior to communication.

CLARK FORK DATA SYSTEM REFERENCE

SECTION II.B - CFDMS CODING SPECIFICATIONS

SEPTEMBER 1992

1 GENERAL INSTRUCTIONS

The following general instructions set forth the requirements for entering data into the various tables which comprise the Clark Fork Data Management System (CFDMS). The general instructions are followed by specific instructions for completing each field within each of the tables discussed below, or for entering data directly into the CFDMS (or a similarly constructed system). The instructions may also serve as a dictionary providing a table by table description for those desiring to structure a data management system in a similar manner.

1.1 CFDMS ENTITY CHART

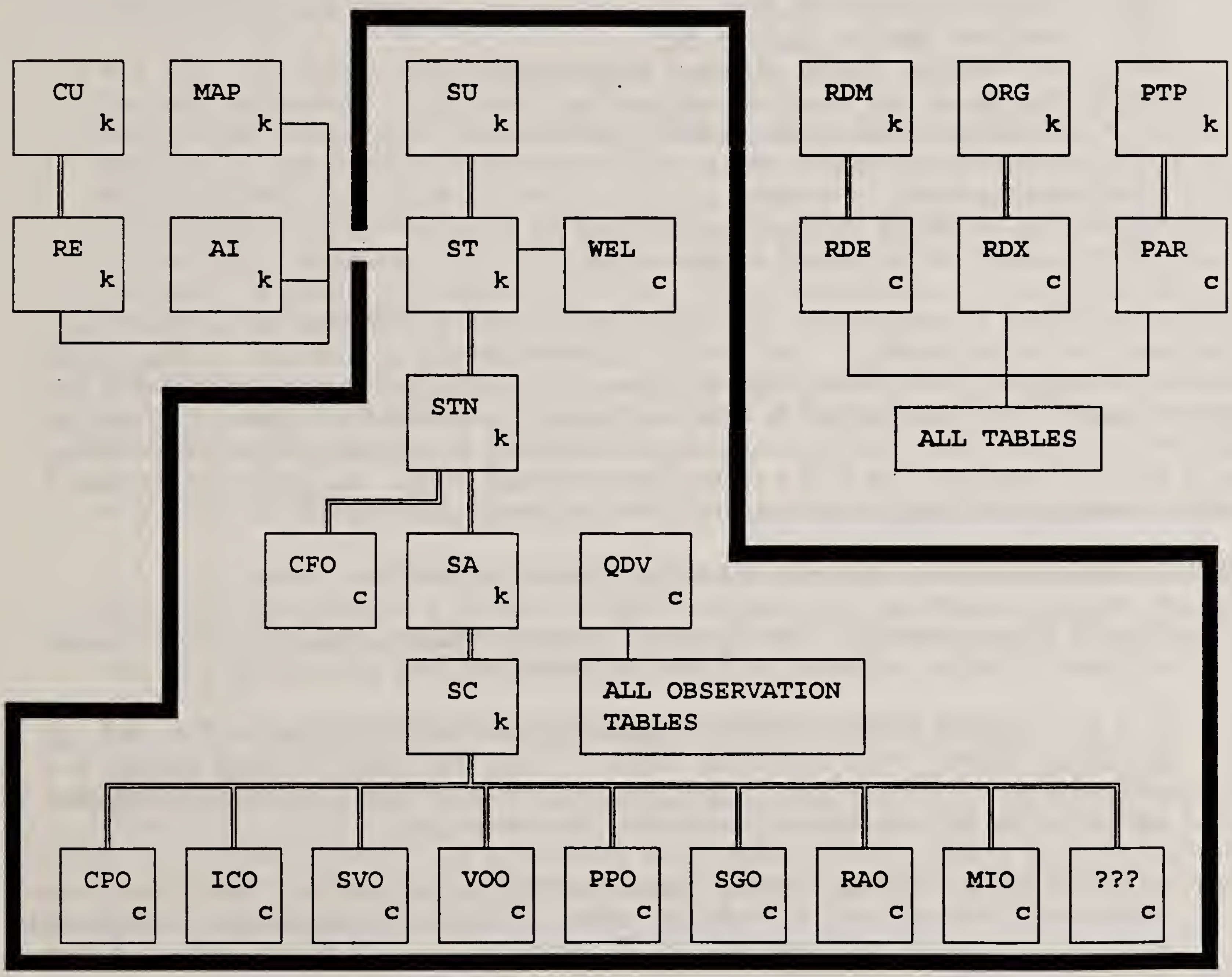

Figure 1 - CFDMS Entity Chart

Each of the boxes in Figure 1 represents a table, or relation, in the CFDMS. Coding data entry forms and entering data for the tables outside of the heavy line are generally the responsibility of the CFDMS administrator. Coding data entry forms and entering data for the tables within the heavy line are generally the responsibility of the agency or organization collecting the data for transfer to the CFDMS. Coding instructions for the tables within the heavy lines are provided in the next section.

1.2 CONTRIBUTING AGENCY RESPONSIBILITY

The agency contributing data will complete some or all of the tables listed below:

SU	Survey (organized sampling effort for some purpose)
ST	Station (observation or sample point)
WEL	Well characteristics
STN	New - Original Station Relation
SA	Sample (material collected)
SC	Sample Container or sub-sample
CFO	Field observation data
CPO	Conventional analysis data
ICO	Inorganic chemical analysis data
SVO	Semi-Volatile organic chemical analysis data
VOO	Volatile organic chemical analysis data
PPO	Pesticides and PCB chemical analysis data
RAO	Radionuclide analysis data
SGO	Sediment grain size data
QDV	Data validation descriptors and values
RDE	Records and document entity relation

Data in the CFDMS is grouped on a SURVEY basis. A survey is defined for any specifically identifiable data collection effort. This could be an entire contract or project or a definable part of a contract or project. In actual practice, a given section, appendix, or attachment of a data summary report is often considered to be a single survey (e.g. Site XYZ spring 1991 surface water investigation). The objective is to group data logically to provide a pathway for retrieval and to explicitly associate data with a related data summary report. All data resulting from a particular survey is ultimately tied to a single survey code in the CFDMS.

The following records must be completed for each survey effort:

- 1 SU (Survey) record. The SU record describes the data collection effort in terms of general location, start date, end date, surveyor, etc.

- 1 ST (Station) record for each sampling station utilized in the survey and not previously defined under a previous survey. There will likely be many stations in a particular survey. The ST records describe the stations in terms of locational coordinates and other location information, associated stream reach, etc.

- 1 STN (New - Original Station Relation) record for each station. The STN table is used to eliminate the need to re-define stations utilized in more than one survey. A newly located station will have both an ST record and an STN record, while a station reoccupied under a later survey will have only an STN record linking the new name to the original name (and associated descriptive information). The STN record contains only the new survey and station names and the original survey and station names.

- 1 Well (WEL) record for each original station record (ST) which pertains to a well. The WEL record provides well construction and use data.

- 1 SA (Sample) record for each sample. There may be multiple samples at a single station. The SA record describes the sample media, sampling gear, etc.

- 1 SC (Sub-sample) record for each sub-sample. There will be at least one and may be multiple sub-samples under a single sample. The SC record describes a sub-sample in terms of depth, date, time, sample type, etc. The SC record can be thought of as pertaining to a single container (or set of containers if multiple containers are necessary to collect the required volume). A sample is often sub-divided into multiple containers or sub-samples to differentiate on the basis of depth.

- 1 CFO (Field Observation) record for each set of field observations made at a given date and time at a particular station. The CFO record contains the results of field measurements (water level, flow, temperature, etc.) made at a particular station at a particular date and time.

- 1 ??O (laboratory observation) record for each set of laboratory analyses of a particular sub-sample. Data resulting from laboratory analyses are grouped logically in various observation tables provided for recording lab results (CPO, ICO, SVO, VOO, PPO, etc.) A single sub-sample may result in data entered into several tables. Complete records in any or all of the observation tables as necessary. A single record in any of the observation tables will carry all analytical results for a given sub-sample subjected to the same treatment (digestion) and evaluated on the same measurement basis (fraction). If results are to be reported for different treatments or measurement bases, use a separate record for each combination thereof.

- 1 QDV (descriptors and values) record for each descriptor/value linked to each analytical value in the related observation table. Descriptors relating to values in all observation tables are stored in the QDV table.

- 1 RDM (records and documents) record for each document linked to the survey effort.

- 1 RDE (records and documents entity link) record for each document record in RDM. The RDE table provides a format for linking documents to the highest possible related entity. For example, a document may be linked to an entire survey, or it may apply only to a given set of stations or samples within a survey.

1.3 DATA SYSTEM ADMINISTRATOR RESPONSIBILITY

In completing the tables designated as "contributing agency responsibility", certain fields must be completed with a code defined in one of the tables listed below. Occasionally, the item necessary to complete a field is not yet defined in the tables below. Coding new records for these tables must be done by, or in cooperation with, the data system administrator to prevent duplication of codes in the system.

RE	EPA surface water reach - necessary in completing the ST table - contact the data system administrator for codes relating to the area of the survey;
PAR	Parameter Codes - miscellaneous coded values necessary in completing certain fields in all tables -included in Section II.C;

ORG	Organization Directory - necessary in completing all tables - contact the data system administrator for necessary organization codes;
RDX	Rolodex (person directory) - necessary in completing all tables - contact the data system administrator for necessary rolodex codes.

1.4 SAMPLE IDENTIFICATION

In order to facilitate the sharing of data between all contractors associated with the Clark Fork Superfund Sites and to facilitate transfer of data to the CFDMS, A standard sample identification scheme has been adopted for use throughout the region. Please refer to the *Clark Fork Superfund Site Investigation Standard Operating Procedure G-11: Identification of Samples and Individual Analytical Results* for specific instructions.

1.5 KEYS

Table I identifies the primary key (unique record identifier) for each table in the CFDMS. Key fields correspond to the sample identification scheme described in *Standard Operating Procedure G-11: Identification of Samples and Individual Analytical Results.* Each record transferred to the CFDMS must be identified by a unique key. If, after formatting data for transfer from an external system, each record cannot be uniquely identified within the table by the key listed below, contact the data system administrator to discuss options for correction prior to data transfer.

Table I - Primary Key Fields

TABLE	PRIMARY KEY FIELDS
SU	SURVEY
ST	OSURVEY + OSTATION
WEL	OSURVEY + OSTATION
STN	SURVEY + STATION
SA	SURVEY + STATION + DATE + SAMPLE
SC	SURVEY + STATION + DATE + SAMPLE + SS + FREP
CFO	SURVEY + STATION + DATE + OTIME
CPO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
ICO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
SVO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
VOO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
PPO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
RAO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
SGO	SURVEY + STATION + DATE + SAMPLE + SS + FREP + BASIS + TREATMEN
QDV	SURVEY + LABSAMPL + CHE + QDES
RDM	DOCUMENT
RDE	DOCUMENT + ENTITY + KVALUE

The usage of each of the fields listed in Table I is described in the table specific coding instructions which follow.

1.6 FORMAT and STRUCTURE

Data shall be communicated to the CFDMS in machine readable format unless otherwise authorized. Data provided in hard copy only should be coded on forms provided by the data system administrator or on an approved substitute. All fields identified as REQUIRED must be completed. All others are generally optional, but may be specified as required on a project specific basis.

Values entered must be found in the table of acceptable values identified in the instructions specific to each table. For example, if the DOMAIN for a particular field is identified as "SA", the value to be coded for that field must exist in the "SA" (SAMPLE) table. Reference code lists comprising the domain of acceptable values for most coded fields are provided in Section II.C. Updated code lists can be made available at the time of form coding or data entry. If the needed value does not yet exist in the domain table identified for the specific field, contact the data system administrator. The administrator will enter appropriate records for the values needed and update the reference code list.

1.7 UNITS

The coding instructions specify a standard units code to be used to report many of the parameters carried in the system. In other cases, concentration units are left to the discretion of the data collection agency. In these cases a UNITS field is provided in all observation tables to report the units associated with each record. Acceptable unit codes are provided in Section II.C.1.2, Reference Codes, under "UNITS".

All sediment data should be reported on a dry-weight basis. Data reported by the analytical laboratory in wet-weight concentrations should be converted prior to transfer using the following formula:

Dry-weight concentration = Wet-weight concentration /(% solids/100)

1.8 CODING FIELD QC SAMPLES

Field QC sample results may be recorded in the same tables as environmental sample results. The field STYPE in table SC is used to differentiate field data from QC data.

• STYPE	The type of sample being reported is filled in using the Miscellaneous Parameter code type STYPE. For example, field blanks have an STYPE value of FB.
• STATION	The station should be identified as for any sample to insure referential integrity. Field QC samples are assumed to be associated with the station from which they are submitted. Where no station is associated with a particular field QC sample, a station named "FIELD" may be defined.
• SAMPLE, SS	The sample should be given a unique identifier in the normal manner.

All other fields are coded according to the instructions for the particular table.

1.9 QA/QC INFORMATION

Laboratory concentration flags, instrumentation identifiers, and data validation qualifiers, descriptors and values may be associated with analytical results. The process of data validation and assessment and usage of the various flags, qualifiers and descriptors is discussed in the references noted in Section I. Coding of flags, qualifiers and descriptors for transfer to the CFDMS is described in the specific coding instructions for each observation table.

1.10 SUPPORTING DOCUMENTATION

A transmittal letter should accompany each data packet, documenting:

- Name of associated Data Summary Report;
- a complete list of the agency, agency contractor, and laboratory personnel involved in producing the data and their roles;
- a complete list of the documents related to the data, in the format of the CFDMS RDE table. Should the number of records in the RDE table become excessive (i.e. documents linked to low level entities such as "sample"), the document information shall be provided in machine readable format.
- file status (copied/archived/backed up);
    - if archived or backed up:
        - program used;
        - instructions for restoring the file;
- target CFDMS table names;
- number of records in each table;
- if transferred in ASCII format, target CFDMS field names in the order or the ASCII file.

2 CODING EXAMPLES

2.1 CODING KEY FIELDS

Figure 2 details the coding of key fields for a simple example.

SU In the example three SURVEYS were described in a data summary report: surface water (SBCSW91A), soils (SBCSO91A), and groundwater (SBCGW91A). The key to the surface water record in SU is:

"SBCSW91A".

ST For the survey, three stations were defined. Two of the stations had not previously been occupied under another survey, and are therefore fully described in ST. The other, SW01, which was sampled in an earlier survey and already described in the data base, needs no further description in ST. The key to the ST record associated with station SW03 is:

"SBCSW91A" + "SW03".

STN The identifiers for all stations sampled under this survey are entered into STN, including those new to this survey effort and those previously described under another survey. The table contains only two non-key fields, OSURVEY (original survey) and

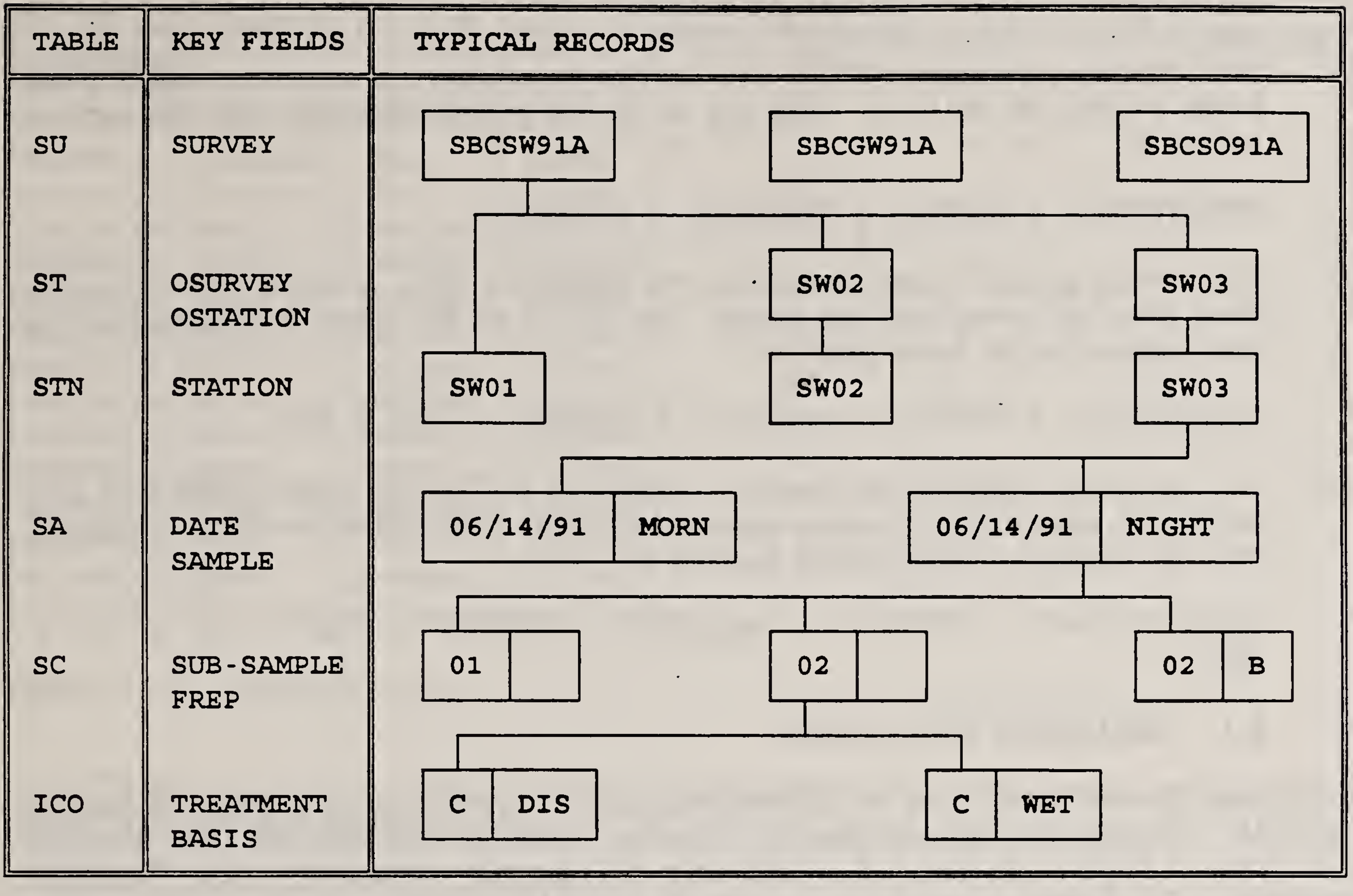

Figure 2 - Coding Key Fields

OSTATION (original station). The key to the ST record associated with station SW03 is:

"SBCSW91A" + "SW03".

Because station SW03 is a new station established under this survey effort, the OSURVEY and OSTATION fields are the same:

"SBCSW91A" + "SW03".

On the other hand, the STN record for station SW01 would have a key of:

"SBCSW91A" + "SW01"

and the OSURVEY and OSTATION fields might be:

"SBCSW88B" + "SW14"

indicating that this station was originally described under a surface water survey in 1988 as station SW14. If it is not known whether stations have been previously entered into the CFDMS, it is acceptable to code all stations as new, although this may result in redundant station descriptive information in ST.

SA From surface water station SW03, two samples were taken, one in the morning and one in the evening on 06/14/91. The key to the SA record associated with the evening sample is:

"SBCSW91A" + SOW3" + "06/14/91" + "NIGHT".

SC The evening sample was sub-sampled at two different depths. A field replicate was also taken from the lower level sub-sample. The key to the SC record associated with the field replicate at the lower depth is:

"SBCSW91A" + "SW03" + 06/14/91" + NIGHT" + "02" + "B".

ICO The laboratory analyzed the dissolved fraction as well as the whole fraction of sub-sample 02, using the CLP metals digestion for both. The key to the record associated with the analysis of the dissolved fraction is:

"SBCSWO91A" + "SWO03" + "06/14/91" + "NIGHT" + "02" + "B" + "C" + "DIS".

2.2 EXAMPLE RELATIONS

A relational view of survey data for the simple example above is shown in Figure 3 through Figure 10. The data are organized into the following tables: SU (surveys), ST (new stations), STN (new - original stations), SA (samples), SC (sample containers), ICO (inorganic chemicals), ICD (inorganic chemicals descriptors), and PAR (miscellaneous parameter codes). Selected fields within each table are shown for example only.

SURVEY	NAME	SDATE	EDATE
SBCSW91A	SBC Spring Runoff Sampling Event	05/01/91	06/31/91
SBCSO91A	SBC Phase II Soils Survey	05/01/91	06/31/91
SBCGW91A	SBC Phase II Groundwater Survey	05/01/91	06/31/91

Figure 3 - SU Survey Relation

The SU table contains for each survey, the survey ID, name, start date and end date.

The ST table contains for each station, a survey ID, station number and XY state plane coordinates.

SURVEY	STATION	EAST	NORTH
SBCSW91A	SW01	1162700	806100
SBCSW91A	SW02	1166450	805850
SBCSW91A	SW03	1161500	804300
SBCSO91A	SO01	1164100	799750
SBCSO91A	SO02	1162100	802500
SBCSO91A	SO03	1159900	800700
SBCSO91A	SO04	1166150	803350
SBCGW91A	GW01	1159700	800500
SBCGW91A	GW02	1154850	798200
SBCGW91A	GW03	1154200	798100
SBCGW91A	GW04	1149150	793450

Figure 4 - ST Station Relation

The STN table contains for each station, the current survey ID, current station name, original survey ID and original station name.

SURVEY	STATION	OSURVEY	OSTATION
SBCSW91A	SW01	SBCSW88B	SW14
SBCSW91A	SW02	SBCSW91A	SW02
SBCSW91A	SW03	SBCSW91A	SW03
SBCSO91A	SO01	SBCSO91A	SO01
SBCSO91A	SO02	BUTSO88B	DEEP
SBCSO91A	SO03	SBCSO91A	SO03
SBCSO91A	SO04	SBCSO91A	SO04
SBCGW91A	GW01	SBCGW91A	GW01
SBCGW91A	GW02	SBCGW91A	GW02
SBCGW91A	GW03	SBCGW91A	GW03
SBCGW91A	GW04	WSPGW86A	USGS23

Figure 5 - STN New - Original Station Relation

The SA table contains for each sample, a survey ID, a station number, a date, a sample number, a sphere code, and a sampling gear code.

SURVEY	STATION	DATE	SAMPLE	SPHERE	GEAR
SBCSW91A	SW01	06/14/91	MORN	3	06
SBCSW91A	SW01	06/14/91	NIGHT	3	06
SBCSW91A	SW02	06/14/91	MORN	3	06
SBCSW91A	SW02	06/14/91	NIGHT	3	06
SBCSW91A	SW03	06/20/91	MORN	3	06
SBCSW91A	SW03	06/20/91	NIGHT	3	06
SBCGW91A	GW01	06/10/91	01	H	09
SBCGW91A	GW02	06/10/91	01	H	09
SBCGW91A	GW03	06/10/91	01	H	09
SBCSO91A	SO01	07/01/91	01	T	20
SBCSO91A	SO01	07/01/91	02	T	20

Figure 6 - SA Sample Relation

The SC table contains for each sub-sample, a survey ID, a station number, a date, a sample number, a sub-sample number, a field rep number, the upper depth and lower depth of the sub-sample.

SURVEY	STATION	DATE	SAMPLE	SS	FREP	UPDEPTH	LOWDEPTH
SBCSW91A	SW01	06/14/91	MORN	01		0.5	0.5
SBCSW91A	SW01	06/14/91	NIGHT	01		0.5	0.5
SBCSW91A	SW01	06/14/91	NIGHT	02		0.5	1.0
SBCSW91A	SW01	06/14/91	NIGHT	02	B	0.5	1.0
SBCSW91A	SW02	06/14/91	MORN	01		0.0	0.5
SBCSW91A	SW02	06/14/91	NIGHT	01		0.0	0.5
SBCSW91A	SW03	06/20/91	MORN	01		0.0	0.5
SBCSW91A	SW03	06/20/91	NIGHT	01		0.0	0.5

Figure 7 - SC Sub-sample Relation

The ICO table contains for each sample analyzed, a survey ID, a station number, a date, a sample number, a sub-sample number, a field rep number, a laboratory sample number, concentrations of various inorganic chemicals and associated qualifiers, the analysis method (furnace, flame, etc) and significant digits.

SURVEY	STATION	DATE	SAMPLE	SS	FREP	TR	ASI	LABSAMPL	ARSENIC	QARS	CADMIUM	QCAD
SBCSW91A	SW01	06/14/91	MORN	01		C	WET	20679	4790 J	P 3	101 J	P 3
SBCSW91A	SW01	06/14/91	NIGHT	01		C	WET	20689	8070	P 3	246 J	P 3
SBCSW91A	SW01	06/14/91	NIGHT	02		C	DIS	20681	755 A	P 3	431	P 3
SBCSW91A	SW01	06/14/91	NIGHT	02		C	WET	20682	3240 A	P 3	78 A	P 3
SBCSW91A	SW01	06/14/91	NIGHT	02	B	C	WET	20683	683	F 3	23	F 3
SBCSW91A	SW02	06/14/91	MORN	01		C	WET	20684	2670	F 3	146 R	F 3
SBCSW91A	SW02	06/14/91	NIGHT	01		C	WET	20685	608 R	P 3	573	P 3
SBCSW91A	SW03	06/20/91	MORN	01		C	WET	20686	59	P 3	33 J	P 3
SBCSW91A	SW03	06/20/91	NIGHT	01		C	WET	20687	154	P 3	223	P 3

Figure 8 - ICO Inorganic Chemicals Observations Relation

The QDV table contains for each qualified analytical value, a survey ID, a laboratory sample number, a chemical name, a descriptor identifying the QC test which failed to perform properly, and the associated descriptor value.

SURVEY	LABSAMPL	CHE	QDES	PVALUE
SBCSW91A	20679	ARSENIC	S	136
SBCSW91A	20679	CADMIUM	S	144
SBCSW91A	20680	CADMIUM	D	36
SBCSW91A	20681	ARSENIC	S	126
SBCSW91A	20682	ARSENIC	S	126
SBCSW91A	20682	CADMIUM	S	129
SBCSW91A	20684	CADMIUM	S	188
SBCSW91A	20685	ARSENIC	D	77
SBCSW91A	20686	CADMIUM	S	140

Figure 9 - QDV Descriptors Relation

The PAR table contains for each miscellaneous code, a code type, a code value and a description of the code.

CTYPE	CODE	DESCRIPTION
SPHERE	3	Water Column
SPHERE	H	Groundwater
SPHERE	N	Dust
SPHERE	O	Oil
SPHERE	P	Tailings
SPHERE	T	Soils
GEAR	05	Bottle(nisken, etc)
GEAR	06	Grab (Van Veen, etc)
GEAR	07	Core (piston, etc)
GEAR	08	Dredge (clam,pipe,etc)
GEAR	09	Pump (plankton, etc.)

Figure 10 - PAR Miscellaneous Parameters Relation

3 TABLE SPECIFIC INSTRUCTIONS

3.1 INSTRUCTION FORMAT

The data coding form and instructions associated with each of the tables identified as "contributing agency responsibility" begin on the next page. Explanatory information provided relative to each field to be completed includes:

FIELD NAME	Field identification which appears on coding form and in table definition.
FIELD TYPE	Knowledgeman provides for four field types: STR (string); NUM (decimal number); INT (integer); and LOGIC (true/false).
FIELD LENGTH	
PICTURE	Defines the allowable structure of the field as follows: a - alphabetic character d - digit,+,-,. r - ASCII char u - ASCII char - converts to uppercase % - shorthand - "%5u" = "uuuuu"
DOMAIN	If the field is intended to contain coded information, the table wherein that information must be found is specified as {TABLE}. If the domain for the coded information is PAR, a code type in quotation marks follows the table name {PAR "DUSE"}. Section II.C provides a list of the commonly needed reference codes, organized by code type.

DEFINITION A short definition of the use of the field.

3.2 CODING QUALIFIERS

In each of the observation tables (tables whose names end in "O") described in the following section, various fields are provided for the recording of analytical results. String fields are used as opposed to number fields in order to allow the storage and display of results with the correct number of significant figures, and to allow the storage of qualifiers with the analytical result. Analytical results (with the appropriate number of significant figures displayed) should be left aligned, followed by the laboratory concentration qualifier (reference code type "CLPC") followed by data validation qualifier(s) (reference code type "DVAL"). If space allows, it is appropriate to leave a space between the value and the qualifiers.

Alternatively, it is appropriate to code an associated field for each analytical result named "Q*ANALYTE*" (substitute each field name for *ANALYTE*), for the purpose of carrying the qualifiers. This may be useful if it is necessary to transfer analytical values in numeric fields, as opposed to string fields as described above. In this case, the number of significant figures to be associated with the analytical result would also be designated in the Q*ANALYTE* field. The length and structure of the Q*ANALYTE* fields may be established as necessary for a particular data set; the documentation accompanying the data set should describe the structure utilized.

SPECIAL CASE: Q*ANALYTE* fields are to be associated with all analytical results in the CFRICO table for the purpose of carrying an instrumentation code (reference code type "METH"). These fields may also be used to transfer the concentration qualifier, data validation qualifiers and significant figures if necessary under the circumstances described above. However, in this case, a designated field structure must be strictly adhered to, as the instrumentation codes may resemble data validation qualifiers. The documentation associated with the data set should describe the field structure utilized.

3.3 SURVEY DATA - TABLE CFRSU

```
SURVEY   STR    8       "uuuuuuuu"
         {Domain}Definition: Survey ID
         (REQUIRED FIELD - PRIMARY KEY PART 1)

NAME     STR   62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Survey Name

DOCUMENT STR   24       "uuuuuuuuuuuuuuuuuuuuuuuu"
         {Domain}Definition: {RDM}

DOCPAGE  STR   10       "rrrrrrrrrr"
         {Domain}Definition: Source page/section/record

REVIEWER STR    8       "uuuuuuuu"
         {Domain}Definition: {RDX}

LOCATION STR   62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Entity Location
         (REQUIRED FIELD)

SPONSOR  STR    4       "uuuu"
         {Domain}Definition: {ORG}

CONTRACT STR   20       "rrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Sponsor Contract No.

SURVEYOR STR    8       "uuuuuuuu"
         {Domain}Definition: {RDX}

SDATE    STR    8       "dd/dd/dd"
         {Domain}Definition: Start Date (m/d/y)
         (REQUIRED FIELD)

EDATE    STR    8       "dd/dd/dd"
         {Domain}Definition: End Date (m/d/y)
         (REQUIRED FIELD)

PURPOSE  STR  313       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
                        rrrrrrrrrrrrr"
         {Domain}Definition: Purpose/Objective

REMARK   STR  235       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
                        rrrrrrrrrrrrr"
         {Domain}Definition: Remark/Note

RECORDER STR    8       "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR    8       "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.4 ORIGINAL STATION DATA - TABLE CFRST

OSURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Original Survey ID
(REQUIRED FIELD - PRIMARY KEY PART 1 AND LINK TO PARENT TABLE)

OSTATION STR 10 "uuuuuuuuuu"
{Domain}Definition: Original Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

REACH STR 18 "nnnnnnnn uuu ddddd"
{Domain}Definition: {RE}

ACTIVITY STR 8 "uuuuuuuu"
{Domain}Definition: {AI}

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

LOCATION STR 62 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Entity Location
(REQUIRED FIELD)

COUNTY STR 5 "aannn"
{Domain}Definition: {PAR "CNTY"}

TOWNSHIP STR 4 "ddcc"
{Domain}Definition: Township (Public land survey)

ERANGE STR 3 "dda"
{Domain}Definition: Range (Public land survey)

SECTION STR 6 "ddaaaa"
{Domain}Definition: {EISTRS}

TRMETHOD STR 1 "u"
{Domain}Definition: {PAR "XYMETHOD"}

EAST NUM 8 "ddddddd"
{Domain}Definition: East SPC (ft)
(REQUIRED FIELD)

NORTH NUM 8 "ddddddd"
{Domain}Definition: North SPC (ft)
(REQUIRED FIELD)

ZONE STR 3 "aau"
{Domain}Definition: {PAR "ZONE"}
(REQUIRED FIELD)

XYDATUM STR 2 "dd"
{Domain}Definition: {PAR "XYDATUM"}

XYMETHOD STR 1 "u"
{Domain}Definition: {PAR "XYMETHOD"}

XYERR STR 4 "rrrr"
{Domain}Definition: SPC Location Accuracy (ft)
(REQUIRED FIELD)

DLAT NUM 8 "dd.dddd"
{Domain}Definition: Degrees Latitude

```
DLONG    NUM     8       "ddd.dddd"
         {Domain}Definition: Degrees Longitude

LLMETHOD STR     1       "u"
         {Domain}Definition: {PAR "XYMETHOD"}

ELEV     NUM     8       "ddddd.dd"
         {Domain}Definition: Elevation (ft)
         (REQUIRED FIELD)

ZERR     STR     3       "rrr"
         {Domain}Definition: Elevation Accuracy (ft)
         (REQUIRED FIELD)

HEIGHT   STR     5       "rrrrr"
         {Domain}Definition: Height survey point from ground
         (REQUIRED FIELD)

ELEVREF  STR    30       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Description of elev. reference
         (REQUIRED FIELD)

ZDATUM   STR     2       "dd"
         {Domain}Definition: {PAR "ZDATUM"},ZDATUM]

ZMETHOD  STR     1       "u"
         {Domain}Definition: {PAR "ZMETHOD"}

BANK     STR     1       "u"
         {Domain}Definition: {PAR "BANK"}

RMI      NUM     8       "dddd.dd"
         {Domain}Definition: River Mile Index (miles)

FLOODPLA STR     2       "uu"
         {Domain}Definition: {PAR "FLD"}

GEOLOGY  STR     9       "rrrrrrrrr"
         {Domain}Definition: {PAR "GEO"}

DESCRIPT STR    62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Entity Description

COMMENT  STR    62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Comment

RECORDER STR     8       "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8       "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.5 STATION DATA - TABLE CFRSTN

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}New Survey ID
(REQUIRED FIELD - PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}New Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

OSURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Original Survey ID
(REQUIRED FIELD)

OSTATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {ST}Original Station ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

RECORDER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

RDATE STR 8 "dd/dd/dd"
{Domain}Definition: Recorded Date (m/d/y)

3.6 WELL DATA - TABLE CFRWEL

OSURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Original Survey ID
(REQUIRED FIELD - PRIMARY KEY PART 1)

OSTATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {ST}Original Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2 AND LINK TO PARENT TABLE)

OWNER STR 25 "rrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Entity owner

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

DRILLER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

DRILLMET STR 1 "u"
{Domain}Definition: {PAR "DRIL"}method

CDATE STR 8 "dd/dd/dd"
{Domain}Definition: Completion Date (m/d/y)

WELLUSE STR 2 "uu"
{Domain}Definition: {PAR "WELL"}

DDEPTH NUM 8 "ddd.d"
{Domain}Definition: Drill depth from surface (ft)

CDEPTH NUM 8 "ddd.d"
{Domain}Definition: Cased depth (ft)

STATUS STR 1 "u"
{Domain}Definition: {PAR "STAT"}

ELEV NUM 8 "ddddd.dd"
{Domain}Definition: Elevation TOC (ft)

OPENTOP NUM 8 "ddd.d"
{Domain}Definition: Depth to open interval top (ft)

OPENBOT NUM 8 "ddd.d"
{Domain}Definition: Depth to open interval bottom (ft)

DIAMETER NUM 8 "dd.dd"
{Domain}Definition: Diameter (in)

CASETYPE STR 40 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Casing type and material

OPENTYPE STR 40 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Opening type and material

JOINTYPE STR 40 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Joint type and material

SANDPACK STR 40 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Sand pack details

```
SEALTYPE STR    40       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Seal details

GROUTYPE STR    40       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Grout type details

WELLLOG  STR     1       "u"
         {Domain}Definition: {PAR "WELLLOG"}

IWLEVEL  STR    10       "uuuuuuuuuu"
         {Domain}Definition: Installation Water Level (ft)

COMMENT  STR    62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Comment

RECORDER STR     8       "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8       "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.7 CONVENTIONAL FIELD OBSERVATIONS DATA - TABLE CFRCFO

```
SURVEY   STR    8       "uuuuuuuu"
         {Domain}Definition: {SU}Survey ID
         (REQUIRED FIELD - PRIMARY KEY PART 1)

STATION  STR    10      "uuuuuuuuuu"
         {Domain}Definition: {STN}Station ID
         (REQUIRED FIELD - PRIMARY KEY PART 2 AND LINK TO PARENT TABLE)

DATE     STR    8       "dd/dd/dd"
         {Domain}Definition: Date (m/d/y)
         (REQUIRED FIELD - PRIMARY KEY PART 3)

OTIME    STR    5       "dd:dd"
         {Domain}Definition: Sample Time (h:m)
         (REQUIRED FIELD - PRIMARY KEY PART 4)

SAMPLE   STR    12      "uuuuuuuu"
         {Domain}Definition: {SA}
         (REQUIRED FIELD IF FIELD OBSERVATION DATA IS TO BE LINKED TO LAB SAMPLE DATA)

SS       STR    4       "uuuu"
         {Domain}Definition: {SC}
         (REQUIRED FIELD IF FIELD OBSERVATION DATA IS TO BE LINKED TO LAB SAMPLE DATA)

DOCUMENT STR    24      "uuuuuuuuuuuuuuuuuuuuuuuu"
         {Domain}Definition: {RDM}

DOCPAGE  STR    10      "rrrrrrrrrr"
         {Domain}Definition: Source page/section/record

BATCH    STR    8       "uuuuuuuu"
         {Domain}Definition: QA/QC Batch
         (REQUIRED FIELD IF LINKED TO SAMPLE/SS)

OBSERVER STR    8       "uuuuuuuu"
         {Domain}Definition: {RDX}Sampling Manager

WLEVEL   STR    10      "uuuuuuuuuu"
         {Domain}Definition: Water level (ft from ref. point) =

WELEV    STR    10      "uuuuuuuuuu"
         {Domain}Definition: Water elevation (ft) =

WTEMPC   STR    10      "uuuuuuuuuu"
         {Domain}Definition: temperature (°C), Water =

PH       STR    10      "uuuuuuuuuu"
         {Domain}Definition: pH (S.U.) =

EC       STR    10      "uuuuuuuuuu"
         {Domain}Definition: Conductivity (μmho/cm²),Specific =

EH       STR    10      "uuuuuuuuuu"
         {Domain}Definition: Reaction potential (mv) =

DOXYGEN  STR    10      "uuuuuuuuuu"
         {Domain}Definition: oxygen,Dissolved (ppm) =

FLOWCFS  STR    10      "uuuuuuuuuu"
         {Domain}Definition: Water flow (cfs) =

ATEMPC   STR    10      "uuuuuuuuuu"
         {Domain}Definition: temperature (°C), Air =
COMMENT STR    62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDER STR    8       "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE   STR     8       "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

3.8 SAMPLE DATA - TABLE CFRSA

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD - PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2 AND LINK TO PARENT TABLE)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: Sample ID
(REQUIRED FIELD - PRIMARY KEY PART 4)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

OBSERVER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}Sampling Manager

SPHERE STR 2 "uu"
{Domain}Definition: {PAR "0093"}Media sampled
(REQUIRED FIELD)

SCOMMENT STR 20 "rrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Sphere Comment

GEAR STR 2 "dd"
{Domain}Definition: {PAR "0376"}Sampling gear
(REQUIRED FIELD)

GCOMMENT STR 20 "rrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Gear Comment

SPERIOD STR 5 "dd:dd"
{Domain}Definition: Sample Period (h:m)

SAREA STR 5 "ddddd"
{Domain}Definition: Sample Area (m^2)

PVOLUME STR 10 "uuuuuuuuuu"
{Domain}Definition: Purge Volume (gal)

COMPOSIT STR 30 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Composite Method

DESCRIPT STR 62 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Entity Description

COMMENT STR 62 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Comment

RECORDER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

RDATE STR 8 "dd/dd/dd"
{Domain}Definition: Recorded Date (m/d/y)

3.9 SAMPLE CONTAINER / SUB-SAMPLE DATA - TABLE CFRSC

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

ODATE STR 8 "dd/dd/dd"
{Domain}Definition: Observation Date (m/d/y)
(REQUIRED FIELD)

OTIME STR 5 "dd:dd"
{Domain}Definition: Observation Time (h:m)
(REQUIRED FIELD)

RECDATE STR 8 "dd/dd/dd"
{Domain}Definition: Lab receipt data (m/d/y)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

UPDEPTH STR 7 "uddddddd"
{Domain}Definition: Upper Sub-sample Depth (ft)
(REQUIRED FIELD)

LOWDEPTH STR 7 "uddddddd"
{Domain}Definition: Lower Sub-sample Depth (ft)
(REQUIRED FIELD)

STYPE STR 2 "uu"
{Domain}Definition: {PAR "STYP"}Sample Type
(REQUIRED FIELD)

DESCRIPT STR 62 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Entity Description

COMMENT STR 62 "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
{Domain}Definition: Comment

RECORDER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
RDATE    STR    8       "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.10 CONVENTIONAL PARAMETER OBSERVATIONS - TABLE CFRCPO

```
SURVEY   STR    8        "uuuuuuuu"
         {Domain}Definition: {SU}Survey ID
         (REQUIRED FIELD -PRIMARY KEY PART 1)

STATION  STR    10       "uuuuuuuuuu"
         {Domain}Definition: {STN}Station ID
         (REQUIRED FIELD - PRIMARY KEY PART 2)

DATE     STR    8        "dd/dd/dd"
         {Domain}Definition: Sample date (m/d/y)
         (REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE   STR    12       "uuuuuuuu"
         {Domain}Definition: {SA}
         (REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP     STR    2        "uu"
         {Domain}Definition: Field Replicate ID
         (REQUIRED FIELD - PRIMARY KEY PART 5)

SS       STR    3        "uuu"
         {Domain}Definition: Sub-sample ID
         (REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS    STR    3        "uuu"
         {Domain}Definition: {PAR "BASI"}Measurement Basis
         (REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMENSTR    1        "u"
         {Domain}Definition: {PAR "TREA"}Lab treatment
         (REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS  STR    10       "uuuuuuuuuu"
         {Domain}Definition: EPA Case/SAS number
         (REQUIRED FIELD)

FLDSAMPLSTR    8        "uuuuuuuu"
         {Domain}Definition: Agency, PRP or contractor field sample number
         (REQUIRED FIELD)

LAB      STR    4        "uuuu"
         {Domain}Definition: {ORG}Laboratory performing analysis
         (REQUIRED FIELD)

LABSAMPLSTR    12       "uuuuuuuuuuuu"
         {Domain}Definition: Laboratory Sample ID
         (REQUIRED FIELD)

DOCUMENTSTR    24       "uuuuuuuuuuuuuuuuuuuuuuuu"
         {Domain}Definition: {RDM}

DOCPAGE  STR    10       "rrrrrrrrrr"
         {Domain}Definition: Source page/section/record

BATCH    STR    8        "uuuuuuuu"
         {Domain}Definition: QA/QC Batch
         (REQUIRED FIELD)

REVIEWERSTR    8        "uuuuuuuu"
         {Domain}Definition: {RDX}

ABLEVEL  STR    2        "uu"
         {Domain}Definition: {PAR "ABL"}AB Documents
```

```
        (REQUIRED FIELD)

SOLIDS  NUM     8       "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS   STR     1       "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

ANIONS  STR     10      "uuuuuuuuuu"
        {Domain}Definition: anions (ppm) =

CATIONS STR     10      "uuuuuuuuuu"
        {Domain}Definition: cations (ppm) =

SLUDGE  STR     10      "uuuuuuuuuu"
        {Domain}Definition: sludge (ml/L) =

PH      STR     10      "uuuuuuuuuu"
        {Domain}Definition: pH (S.U.) =

DOXYGEN STR     10      "uuuuuuuuuu"
        {Domain}Definition: oxygen,Dissolved (ppm) =

EC      STR     10      "uuuuuuuuuu"
        {Domain}Definition: Conductivity (µmho/cm²),Specific =

EH      STR     10      "uuuuuuuuuu"
        {Domain}Definition: Reaction potential (mv) =

CEC     STR     10      "uuuuuuuuuu"
        {Domain}Definition: Cation Exchange Capacity (me/100g =

TSULFUR STR     10      "uuuuuuuuuu"
        {Domain}Definition: Sulfur,Total (ppm) =

PSULFUR STR     10      "uuuuuuuuuu"
        {Domain}Definition: Sulfur (ppm),Pyritic =

TS      STR     10      "uuuuuuuuuu"
        {Domain}Definition: solids (ppm),Total =

TVS     STR     10      "uuuuuuuuuu"
        {Domain}Definition: solids (ppm),Total volatile =

TNVS    STR     10      "uuuuuuuuuu"
        {Domain}Definition: solids (ppm),Total non-volatile =

TNVSS   STR     10      "uuuuuuuuuu"
        {Domain}Definition: solids (ppm),Total non-vol. sus. =

TDS     STR     10      "uuuuuuuuuu"
        {Domain}Definition: solids (ppm),Total dissolved =

TSS     STR     10      "uuuuuuuuuu"
        {Domain}Definition: solids (ppm),Total suspended =

COLOUR  STR     10      "uuuuuuuuuu"
        {Domain}Definition: Color of Solid =

BOD     STR     10      "uuuuuuuuuu"
        {Domain}Definition: Biological Oxygen Demand (ppm) =

COD     STR     10      "uuuuuuuuuu"
```

```
        {Domain}Definition: Oxygen Demand (ppm),Chemical =

TOC      STR    10        "uuuuuuuuuu"
        {Domain}Definition: organic carbon,Total (ppm) =

ORTHOP   STR    10        "uuuuuuuuuu"
        {Domain}Definition: phosphorus,Ortho (ppm) =

PHOSPHOR STR    10        "uuuuuuuuuu"
        {Domain}Definition: phosphorus,Total (ppm) =

PHOSPHAT STR    10        "uuuuuuuuuu"
        {Domain}Definition: phosphate,Total (ppm) =

NITRATE  STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitrate (ppm) =

NITRITE  STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitrite (ppm) =

NO3NO2   STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitrate+nitrite (ppm) =

AMMONIA  STR    10        "uuuuuuuuuu"
        {Domain}Definition: ammonia (ppm) =

AMMONIUM STR    10        "uuuuuuuuuu"
        {Domain}Definition: ammonium (ppm) =

NITROGEN STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitrogen,Total (ppm) =

OILGREAS STR    10        "uuuuuuuuuu"
        {Domain}Definition: Oil and grease (ppm) =

ALKALINI STR    10        "uuuuuuuuuu"
        {Domain}Definition: alkalinity as CaCO3 (ppm) =

CARBONAT STR    10        "uuuuuuuuuu"
        {Domain}Definition: Carbonate (ppm) =

BICARBON STR    10        "uuuuuuuuuu"
        {Domain}Definition: bicarbonate as CaCO3 (ppm) =

HARDNESS STR    10        "uuuuuuuuuu"
        {Domain}Definition: hardness as CaCO3 (ppm) =

CHLORIDE STR    10        "uuuuuuuuuu"
        {Domain}Definition: chloride ion (ppm) =

FLUORIDE STR    10        "uuuuuuuuuu"
        {Domain}Definition: fluoride ion (ppm) =

SULFATE  STR    10        "uuuuuuuuuu"
        {Domain}Definition: sulfate (ppm) =

GASOLINE STR    10        "uuuuuuuuuu"
        {Domain}Definition: Gasoline (ppb) =

KEROSENE STR    10        "uuuuuuuuuu"
        {Domain}Definition: Kerosene (ppb) =

DIESEL   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Diesel (ppb) =
COMMENT STR    62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDERSTR     8       "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE   STR     8       "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

3.11 INORGANIC CHEMICAL OBSERVATIONS - TABLE CFRICO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL  STR     2       "uu"
        {Domain}Definition: {PAR "ABL"}AB Documents
        (REQUIRED FIELD)

SOLIDS   NUM     8       "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS    STR     1       "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

ALUMINUM STR    10       "uuuuuuuuuu"
        {Domain}Definition: aluminum =


QALUMINU STR     4       "uuuu"
        {Domain}Definition:


ANTIMONY STR    10       "uuuuuuuuuu"
        {Domain}Definition: antimony =


QANTIMON STR     4       "uuuu"
        {Domain}Definition:


ARSENIC  STR    10       "uuuuuuuuuu"
        {Domain}Definition: arsenic =


QARSENIC STR     4       "uuuu"
        {Domain}Definition:


BARIUM   STR    10       "uuuuuuuuuu"
        {Domain}Definition: barium =


QBARIUM  STR     4       "uuuu"
        {Domain}Definition:


BERYLLIU STR    10       "uuuuuuuuuu"
        {Domain}Definition: beryllium =


QBERYLLI STR     4       "uuuu"
        {Domain}Definition:


BORON    STR    10       "uuuuuuuuuu"
        {Domain}Definition: boron =


QBORON   STR     4       "uuuu"
        {Domain}Definition:


CADMIUM  STR    10       "uuuuuuuuuu"
        {Domain}Definition: cadmium =


QCADMIUM STR     4       "uuuu"
```

```
        {Domain}Definition:

CALCIUM STR    10       "uuuuuuuuuu"
        {Domain}Definition: calcium =

QCALCIUMSTR     4       "uuuu"
        {Domain}Definition:

CHROMIUMSTR    10       "uuuuuuuuuu"
        {Domain}Definition: chromium =

QCHROMIUSTR     4       "uuuu"
        {Domain}Definition:

COBALT  STR    10       "uuuuuuuuuu"
        {Domain}Definition: cobalt =

QCOBALT STR     4       "uuuu"
        {Domain}Definition:

COPPER  STR    10       "uuuuuuuuuu"
        {Domain}Definition: copper =

QCOPPER STR     4       "uuuu"
        {Domain}Definition:

CYANIDE STR    10       "uuuuuuuuuu"
        {Domain}Definition: cyanide =

QCYANIDESTR     4       "uuuu"
        {Domain}Definition:

IRON    STR    10       "uuuuuuuuuu"
        {Domain}Definition: iron =

QIRON   STR     4       "uuuu"
        {Domain}Definition:

LEAD    STR    10       "uuuuuuuuuu"
        {Domain}Definition: lead =

QLEAD   STR     4       "uuuu"
        {Domain}Definition:

MAGNESIUSTR    10       "uuuuuuuuuu"
        {Domain}Definition: magnesium =

QMAGNESISTR     4       "uuuu"
        {Domain}Definition:
```

```
MANGANES STR    10        "uuuuuuuuuu"
        {Domain}Definition: manganese =

QMANGANE STR     4        "uuuu"
        {Domain}Definition:

MERCURY  STR    10        "uuuuuuuuuu"
        {Domain}Definition: mercury =

QMERCURY STR     4        "uuuu"
        {Domain}Definition:

MOLYBDEN STR    10        "uuuuuuuuuu"
        {Domain}Definition: molybdenum =

QMOLYBDE STR     4        "uuuu"
        {Domain}Definition:

NICKEL   STR    10        "uuuuuuuuuu"
        {Domain}Definition: nickel =

QNICKEL  STR     4        "uuuu"
        {Domain}Definition:

POTASSIU STR    10        "uuuuuuuuuu"
        {Domain}Definition: potassium =

QPOTASSI STR     4        "uuuu"
        {Domain}Definition:

SELENIUM STR    10        "uuuuuuuuuu"
        {Domain}Definition: selenium =

QSELENIU STR     4        "uuuu"
        {Domain}Definition:

SILICA   STR    10        "uuuuuuuuuu"
        {Domain}Definition: silica =

QSILICA  STR     4        "uuuu"
        {Domain}Definition:

SILVER   STR    10        "uuuuuuuuuu"
        {Domain}Definition: silver =

QSILVER  STR     4        "uuuu"
        {Domain}Definition:
```

```
SODIUM   STR    10        "uuuuuuuuuu"
         {Domain}Definition: sodium =


QSODIUM  STR     4        "uuuu"
         {Domain}Definition:


THALLIUM STR    10        "uuuuuuuuuu"
         {Domain}Definition: thallium =


QTHALLIU STR     4        "uuuu"
         {Domain}Definition:


TIN      STR    10        "uuuuuuuuuu"
         {Domain}Definition: tin =


QTIN     STR     4        "uuuu"
         {Domain}Definition:


VANADIUM STR    10        "uuuuuuuuuu"
         {Domain}Definition: vanadium =


QVANADIU STR     4        "uuuu"
         {Domain}Definition:


ZINC     STR    10        "uuuuuuuuuu"
         {Domain}Definition: zinc =


QZINC    STR     4        "uuuu"
         {Domain}Definition:

COMMENT  STR    62        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Comment

RECORDER STR     8        "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8        "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.12 MINERAL OBSERVATIONS - TABLE CFRMIO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL STR     2       "uu"
        {Domain}Definition: {PAR "ABL"}AB Documents
        (REQUIRED FIELD)

SOLIDS  NUM     8       "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS   STR     1       "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

ORTHOCLASTR    10       "uuuuuuuuuu"
        {Domain}Definition: Orthoclase [K feldspar] (% wt.) =

PLAGIOCLSTR    10       "uuuuuuuuuu"
        {Domain}Definition: Plagioclase feldspar (% wt.) =

QUARTZ  STR    10       "uuuuuuuuuu"
        {Domain}Definition: Quartz (% wt.) =

MICA    STR    10       "uuuuuuuuuu"
        {Domain}Definition: Mica/Illite (% wt.) =

JAROSITESTR    10       "uuuuuuuuuu"
        {Domain}Definition: Jarosite (% wt.) =

GYPSUM  STR    10       "uuuuuuuuuu"
        {Domain}Definition: Gypsum (% wt.) =

PYRITE  STR    10       "uuuuuuuuuu"
        {Domain}Definition: Pyrite (% wt.) =

SPHALERISTR    10       "uuuuuuuuuu"
        {Domain}Definition: Sphalerite (% wt.) =

CHALCOPYSTR    10       "uuuuuuuuuu"
        {Domain}Definition: Chalcopyrite (% wt.) =

HORNBLENSTR    10       "uuuuuuuuuu"
        {Domain}Definition: Hornblende [amphibole] (% wt.) =

CALCITE STR    10       "uuuuuuuuuu"
        {Domain}Definition: Calcite (% wt.) =

SIDERITESTR    10       "uuuuuuuuuu"
        {Domain}Definition: Siderite (% wt.) =

SMITHSONSTR    10       "uuuuuuuuuu"
        {Domain}Definition: Smithsonite (% wt.) =

MAGNETITSTR    10       "uuuuuuuuuu"
        {Domain}Definition: Magnetite (% wt.) =

CHLORITESTR    10       "uuuuuuuuuu"
        {Domain}Definition: Chlorite (% wt.) =

KAOLINITSTR    10       "uuuuuuuuuu"
        {Domain}Definition: Kaolinite (% wt.) =

CLAYS   STR    10       "uuuuuuuuuu"
        {Domain}Definition: Clays (% wt.) =

ALUM    STR    10       "uuuuuuuuuu"
        {Domain}Definition: Alum (% wt.) =
MINERAL STR    10       "uuuuuuuuuu"
        {Domain}Definition: Unidentified mineral (% wt.) =

COMMENT STR    62       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDERSTR     8       "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE   STR     8       "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

3.13 PESTICIDES AND PCB OBSERVATIONS - TABLE CFRPPO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL STR     2       "uu"
        {Domain}Definition: {PAR "ABL"}AB Documents
        (REQUIRED FIELD)

SOLIDS  NUM     8       "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS   STR     1       "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

P1024573STR     10      "uuuuuuuuuu"
        {Domain}Definition: heptachlor epoxide =

P1031078STR     10      "uuuuuuuuuu"
        {Domain}Definition: endosulfan sulfate =

P1109682STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1260 =

P1109769STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1254 =

P1110428STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1221 =

P1114116STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1232 =

P1267229STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1248 =

P1267411STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1016 =

P309002 STR     10      "uuuuuuuuuu"
        {Domain}Definition: aldrin =

P319846 STR     10      "uuuuuuuuuu"
        {Domain}Definition: hexachlorocyclohexane,alpha- =

P319857 STR     10      "uuuuuuuuuu"
        {Domain}Definition: hexachlorocyclohexane,beta- =

P319868 STR     10      "uuuuuuuuuu"
        {Domain}Definition: hexachlorocyclohexane,delta- =

P3321365STR     10      "uuuuuuuuuu"
        {Domain}Definition: endosulfan II =

P50293  STR     10      "uuuuuuuuuu"
        {Domain}Definition: DDT,4,4'- =

P5103719STR     10      "uuuuuuuuuu"
        {Domain}Definition: chlordane,alpha- =

P5103742STR     10      "uuuuuuuuuu"
        {Domain}Definition: chlordane,gamma- =

P5346921STR     10      "uuuuuuuuuu"
        {Domain}Definition: aroclor-1242 =

P5349470STR     10      "uuuuuuuuuu"
        {Domain}Definition: endrin ketone =
P57749   STR    10        "uuuuuuuuuu"
         {Domain}Definition: chlordane =

P58899   STR    10        "uuuuuuuuuu"
         {Domain}Definition: hexachlorocyclohexane,gamma- =

P60571   STR    10        "uuuuuuuuuu"
         {Domain}Definition: dieldrin =

P72208   STR    10        "uuuuuuuuuu"
         {Domain}Definition: endrin =

P72435   STR    10        "uuuuuuuuuu"
         {Domain}Definition: methoxychlor =

P72548   STR    10        "uuuuuuuuuu"
         {Domain}Definition: DDD,4,4'- =

P72559   STR    10        "uuuuuuuuuu"
         {Domain}Definition: DDE,4,4'- =

P7421434 STR    10        "uuuuuuuuuu"
         {Domain}Definition: endrin aldehyde =

P76448   STR    10        "uuuuuuuuuu"
         {Domain}Definition: heptachlor =

P8001352 STR    10        "uuuuuuuuuu"
         {Domain}Definition: toxaphene =

P93721   STR    10        "uuuuuuuuuu"
         {Domain}Definition: trichlorophenoxy)propionic acid,2 =

P93765   STR    10        "uuuuuuuuuu"
         {Domain}Definition: trichlorophenoxyacetic acid,2,4,5 =

P94757   STR    10        "uuuuuuuuuu"
         {Domain}Definition: dichlorophenoxyacetic acid,2,4- =

P959988  STR    10        "uuuuuuuuuu"
         {Domain}Definition: endosulfan I =

COMMENT  STR    62        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Comment

RECORDER STR     8        "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8        "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.14 RADIONUCLIDE OBSERVATIONS - TABLE CFRRAO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL STR     2       "uu"
        {Domain}Definition: {PAR "ABL"}AB Documents
        (REQUIRED FIELD)

SOLIDS  NUM     8       "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS   STR     1       "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

ALPHA   STR     10      "uuuuuuuuuu"
        {Domain}Definition: radiation,gross α =

BETA    STR     10      "uuuuuuuuuu"
        {Domain}Definition: radiation,gross β =

C14     STR     10      "uuuuuuuuuu"
        {Domain}Definition: carbon 14 =

CS137   STR     10      "uuuuuuuuuu"
        {Domain}Definition: cesium 137 =

CO60    STR     10      "uuuuuuuuuu"
        {Domain}Definition: cobalt 60 =

H3      STR     10      "uuuuuuuuuu"
        {Domain}Definition: tritium =

I129    STR     10      "uuuuuuuuuu"
        {Domain}Definition: iodine =

K40     STR     10      "uuuuuuuuuu"
        {Domain}Definition: potassium =

PB210   STR     10      "uuuuuuuuuu"
        {Domain}Definition: lead 210 =

PO210   STR     10      "uuuuuuuuuu"
        {Domain}Definition: polonium 210 =

RA226   STR     10      "uuuuuuuuuu"
        {Domain}Definition: radium 226 =

RA228   STR     10      "uuuuuuuuuu"
        {Domain}Definition: radium 228 =

SR90    STR     10      "uuuuuuuuuu"
        {Domain}Definition: strontium 90 =

TH230   STR     10      "uuuuuuuuuu"
        {Domain}Definition: thorium 230 =

TH232   STR     10      "uuuuuuuuuu"
        {Domain}Definition: thorium 232 =

U234    STR     10      "uuuuuuuuuu"
        {Domain}Definition: uranium 234 =

U238    STR     10      "uuuuuuuuuu"
        {Domain}Definition: uranium 238 =

COMMENT STR     62      "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment
```

```
RECORDER STR     8        "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8        "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.15 SEMIVOLATILE OBSERVATIONS - TABLE CFRSVO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL STR     2       "uu"
        {Domain}Definition: {PAR "ABL"}AB Documents
        (REQUIRED FIELD)

SOLIDS  NUM     8       "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS   STR     1       "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

A100027 STR     10      "uuuuuuuuuu"
        {Domain}Definition: nitrophenol,4- =

A105679 STR     10      "uuuuuuuuuu"
        {Domain}Definition: dimethylphenol,2,4- =

A106445 STR     10      "uuuuuuuuuu"
        {Domain}Definition: methylphenol,4- =

A120832 STR     10      "uuuuuuuuuu"
        {Domain}Definition: dichlorophenol,2,4- =

A18952  STR     10      "uuuuuuuuuu"
        {Domain}Definition: phenol =

A51285  STR     10      "uuuuuuuuuu"
        {Domain}Definition: dinitrophenol,2,4- =

A534521 STR     10      "uuuuuuuuuu"
        {Domain}Definition: dinitro-2-methyphenol,4,6- =

A59507  STR     10      "uuuuuuuuuu"
        {Domain}Definition: chloro-3-methylphenol,4- =

A65850  STR     10      "uuuuuuuuuu"
        {Domain}Definition: benzoic acid =

A87865  STR     10      "uuuuuuuuuu"
        {Domain}Definition: pentachlorophenol =

A88062  STR     10      "uuuuuuuuuu"
        {Domain}Definition: trichlorophenol,2,4,6- =

A88755  STR     10      "uuuuuuuuuu"
        {Domain}Definition: nitrophenol,2- =

A95487  STR     10      "uuuuuuuuuu"
        {Domain}Definition: methylphenol,2- =

A95578  STR     10      "uuuuuuuuuu"
        {Domain}Definition: chlorophenol,2- =

A95954  STR     10      "uuuuuuuuuu"
        {Domain}Definition: trichlorophenol,2,4,5- =

B100016 STR     10      "uuuuuuuuuu"
        {Domain}Definition: nitroaniline,4- =

B100516 STR     10      "uuuuuuuuuu"
        {Domain}Definition: benzyl alcohol =

B101553 STR     10      "uuuuuuuuuu"
        {Domain}Definition: bromophenyl-phenylether,4- =
B106467 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichlorobenzene,1,4- =

B106478 STR    10        "uuuuuuuuuu"
        {Domain}Definition: chloroaniline,4- =

B108601 STR    10        "uuuuuuuuuu"
        {Domain}Definition: bis(2-chloroisopropyl)ether =

B111444 STR    10        "uuuuuuuuuu"
        {Domain}Definition: bis(2-chloroethyl)ether =

B111911 STR    10        "uuuuuuuuuu"
        {Domain}Definition: bis(2-chloroethoxy)methane =

B117817 STR    10        "uuuuuuuuuu"
        {Domain}Definition: bis(2-ethylhexyl)phthalate =

B117840 STR    10        "uuuuuuuuuu"
        {Domain}Definition: di-n-octyl phthalate =

B118741 STR    10        "uuuuuuuuuu"
        {Domain}Definition: hexachlorobenzene =

B120127 STR    10        "uuuuuuuuuu"
        {Domain}Definition: anthracene =

B120821 STR    10        "uuuuuuuuuu"
        {Domain}Definition: trichlorobenzene,1,2,4- =

B121142 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dinitrotoluene,2,4- =

B122667 STR    10        "uuuuuuuuuu"
        {Domain}Definition: 1,2-diphenylhydrazine =

B129000 STR    10        "uuuuuuuuuu"
        {Domain}Definition: pyrene =

B131113 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dimethyl phthalate =

B132649 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dibenzofuran =

B191242 STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzo(g,h,i)perylene =

B193395 STR    10        "uuuuuuuuuu"
        {Domain}Definition: indeno(1,2,3-cd)pyrene =

B205992 STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzo(b)fluoranthene =

B206440 STR    10        "uuuuuuuuuu"
        {Domain}Definition: fluoranthene =

B207089 STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzo(k)fluoranthene =

B208968 STR    10        "uuuuuuuuuu"
        {Domain}Definition: acenaphthylene =

B218019 STR    10        "uuuuuuuuuu"
```

```
        {Domain}Definition: chrysene =

B50328  STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzo(a)pyrene =

B53703  STR    10        "uuuuuuuuuu"
        {Domain}Definition: dibenz(a,h)anthracene =

B541731 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichlorobenzene,1,3- =

B56553  STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzo(a)anthracene =

B606202 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dinitrotoluene,2,6- =

B621647 STR    10        "uuuuuuuuuu"
        {Domain}Definition: N-nitroso-di-n-propylamine =

B62533  STR    10        "uuuuuuuuuu"
        {Domain}Definition: aniline =

B62759  STR    10        "uuuuuuuuuu"
        {Domain}Definition: N-nitroso-dimethylamine =

B67721  STR    10        "uuuuuuuuuu"
        {Domain}Definition: hexachloroethane =

B7005723STR    10        "uuuuuuuuuu"
        {Domain}Definition: chlorophenyl-phenylether,4 =

B746016 STR    10        "uuuuuuuuuu"
        {Domain}Definition: 2,3,7,8-tetrachlorodibenzo-p-diox =

B77474  STR    10        "uuuuuuuuuu"
        {Domain}Definition: hexachlorocyclopentadiene =

B78591  STR    10        "uuuuuuuuuu"
        {Domain}Definition: isophorone =

B83329  STR    10        "uuuuuuuuuu"
        {Domain}Definition: acenaphthene =

B84662  STR    10        "uuuuuuuuuu"
        {Domain}Definition: diethylphthalate =

B84742  STR    10        "uuuuuuuuuu"
        {Domain}Definition: di-n-butylphthalate =

B85018  STR    10        "uuuuuuuuuu"
        {Domain}Definition: phenanthrene =

B85687  STR    10        "uuuuuuuuuu"
        {Domain}Definition: butylbenzylphthalate =

B86306  STR    10        "uuuuuuuuuu"
        {Domain}Definition: N-nitrosodiphenylamine =

B86737  STR    10        "uuuuuuuuuu"
        {Domain}Definition: fluorene =

B87683  STR    10        "uuuuuuuuuu"
        {Domain}Definition: hexachlorobutadiene =
B88744  STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitroaniline,2- =

B91203  STR    10        "uuuuuuuuuu"
        {Domain}Definition: naphthalene =

B91576  STR    10        "uuuuuuuuuu"
        {Domain}Definition: methylnaphthalene,2- =

B91587  STR    10        "uuuuuuuuuu"
        {Domain}Definition: chloronaphthalene,2- =

B91941  STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichlorobenzidine,3,3'- =

B92875  STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzidine =

B95501  STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichlorobenzene,1,2- =

B98953  STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitrobenzene =

B99092  STR    10        "uuuuuuuuuu"
        {Domain}Definition: nitroaniline,3- =

S106514 STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzoquinone =

S120321 STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzyl-4-chlorophenol,2- =

S121697 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dimethylbenzenamine,N,N- =

S4901513STR    10        "uuuuuuuuuu"
        {Domain}Definition: tetrachlorophenol,2,3,4,5- =

S58902  STR    10        "uuuuuuuuuu"
        {Domain}Definition: tetrachlorophenol,2,3,4,6- =

S98544  STR    10        "uuuuuuuuuu"
        {Domain}Definition: Dimethylethyl)phenol,4(1,1- =

COMMENT STR    62        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDERSTR     8        "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE   STR     8        "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

3.16 VOLATILE OBSERVATIONS - TABLE CFRVOO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL  STR     2        "uu"
         {Domain}Definition: {PAR "ABL"}AB Documents
         (REQUIRED FIELD)

SOLIDS   NUM     8        "ddd.dd"
         {Domain}Definition: Percent solids (%)
         (REQUIRED FIELD)

UNITS    STR     1        "l"
         {Domain}Definition: {PAR "UNIT"}
         (REQUIRED FIELD)

V100414  STR    10        "uuuuuuuuuu"
         {Domain}Definition: ethylbenzene =

V100425  STR    10        "uuuuuuuuuu"
         {Domain}Definition: styrene =

V1006101 STR    10        "uuuuuuuuuu"
         {Domain}Definition: dichloropropene,cis-1,3- =

V1006102 STR    10        "uuuuuuuuuu"
         {Domain}Definition: dichloropropene,trans-1,3- =

V106423  STR    10        "uuuuuuuuuu"
         {Domain}Definition: xylene,p- =

V107028  STR    10        "uuuuuuuuuu"
         {Domain}Definition: acrolein =

V107062  STR    10        "uuuuuuuuuu"
         {Domain}Definition: dichloroethane,1,2- =

V107131  STR    10        "uuuuuuuuuu"
         {Domain}Definition: acrylonitrile =

V108054  STR    10        "uuuuuuuuuu"
         {Domain}Definition: vinyl acetate =

V108101  STR    10        "uuuuuuuuuu"
         {Domain}Definition: methylisobutylketone =

V108883  STR    10        "uuuuuuuuuu"
         {Domain}Definition: toluene =

V108907  STR    10        "uuuuuuuuuu"
         {Domain}Definition: chlorobenzene =

V110758  STR    10        "uuuuuuuuuu"
         {Domain}Definition: chloroethylvinylether,2- =

V124481  STR    10        "uuuuuuuuuu"
         {Domain}Definition: dibromochloromethane =

V127184  STR    10        "uuuuuuuuuu"
         {Domain}Definition: tetrachloroethylene,1,1,2,2- =

V1330207 STR    10        "uuuuuuuuuu"
         {Domain}Definition: xylenes,total =

V156605  STR    10        "uuuuuuuuuu"
         {Domain}Definition: dichloroethene,trans-1,2- =

V50000   STR    10        "uuuuuuuuuu"
         {Domain}Definition: formaldehyde =
V540590 STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichloroethene,1,2- =

V56235  STR    10        "uuuuuuuuuu"
        {Domain}Definition: carbon tetrachloride =

V591786 STR    10        "uuuuuuuuuu"
        {Domain}Definition: hexanone,2- =

V67641  STR    10        "uuuuuuuuuu"
        {Domain}Definition: acetone =

V67663  STR    10        "uuuuuuuuuu"
        {Domain}Definition: chloroform =

V71432  STR    10        "uuuuuuuuuu"
        {Domain}Definition: benzene =

V71556  STR    10        "uuuuuuuuuu"
        {Domain}Definition: trichloroethane,1,1,1- =

V74839  STR    10        "uuuuuuuuuu"
        {Domain}Definition: bromomethane =

V74873  STR    10        "uuuuuuuuuu"
        {Domain}Definition: chloromethane =

V75003  STR    10        "uuuuuuuuuu"
        {Domain}Definition: chloroethane =

V75014  STR    10        "uuuuuuuuuu"
        {Domain}Definition: vinyl chloride =

V75092  STR    10        "uuuuuuuuuu"
        {Domain}Definition: methylene chloride =

V75150  STR    10        "uuuuuuuuuu"
        {Domain}Definition: carbon disulfide =

V75252  STR    10        "uuuuuuuuuu"
        {Domain}Definition: bromoform =

V75274  STR    10        "uuuuuuuuuu"
        {Domain}Definition: bromodichloromethane =

V75343  STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichloroethane,1,1- =

V75354  STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichloroethene,1,1- =

V75694  STR    10        "uuuuuuuuuu"
        {Domain}Definition: trichlorofluoromethane =

V78875  STR    10        "uuuuuuuuuu"
        {Domain}Definition: dichloropropane,1,2- =

V78933  STR    10        "uuuuuuuuuu"
        {Domain}Definition: butanone,2- =

V79005  STR    10        "uuuuuuuuuu"
        {Domain}Definition: trichloroethane,1,1,2- =

V79016  STR    10        "uuuuuuuuuu"
```

```
        {Domain}Definition: trichloroethene =

V79345   STR    10        "uuuuuuuuuu"
        {Domain}Definition: tetrachloroethane,1,1,2,2- =

XYLENES  STR    10        "uuuuuuuuuu"
        {Domain}Definition: xylenes,m+o =

COMMENT  STR    62        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDER STR     8        "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE    STR     8        "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

3.17 SOLIDS GRAIN SIZE OBSERVATIONS - TABLE CFRSGO

SURVEY STR 8 "uuuuuuuu"
{Domain}Definition: {SU}Survey ID
(REQUIRED FIELD -PRIMARY KEY PART 1)

STATION STR 10 "uuuuuuuuuu"
{Domain}Definition: {STN}Station ID
(REQUIRED FIELD - PRIMARY KEY PART 2)

DATE STR 8 "dd/dd/dd"
{Domain}Definition: Sample date (m/d/y)
(REQUIRED FIELD - PRIMARY KEY PART 3)

SAMPLE STR 12 "uuuuuuuu"
{Domain}Definition: {SA}
(REQUIRED FIELD - PRIMARY KEY PART 4 AND LINK TO PARENT TABLE)

FREP STR 2 "uu"
{Domain}Definition: Field Replicate ID
(REQUIRED FIELD - PRIMARY KEY PART 5)

SS STR 3 "uuu"
{Domain}Definition: Sub-sample ID
(REQUIRED FIELD - PRIMARY KEY PART 6)

BASIS STR 3 "uuu"
{Domain}Definition: {PAR "BASI"}Measurement Basis
(REQUIRED FIELD - PRIMARY KEY PART 7)

TREATMEN STR 1 "u"
{Domain}Definition: {PAR "TREA"}Lab treatment
(REQUIRED FIELD - PRIMARY KEY PART 8)

CASESAS STR 10 "uuuuuuuuuu"
{Domain}Definition: EPA Case/SAS number
(REQUIRED FIELD)

FLDSAMPL STR 8 "uuuuuuuu"
{Domain}Definition: Agency, PRP or contractor field sample number
(REQUIRED FIELD)

LAB STR 4 "uuuu"
{Domain}Definition: {ORG}Laboratory performing analysis
(REQUIRED FIELD)

LABSAMPL STR 12 "uuuuuuuuuuuu"
{Domain}Definition: Laboratory Sample ID
(REQUIRED FIELD)

DOCUMENT STR 24 "uuuuuuuuuuuuuuuuuuuuuuuu"
{Domain}Definition: {RDM}

DOCPAGE STR 10 "rrrrrrrrrr"
{Domain}Definition: Source page/section/record

BATCH STR 8 "uuuuuuuu"
{Domain}Definition: QA/QC Batch
(REQUIRED FIELD)

REVIEWER STR 8 "uuuuuuuu"
{Domain}Definition: {RDX}

```
ABLEVEL STR     2         "uu"
        {Domain}Definition: {PAR "ABL"}AB Documents
        (REQUIRED FIELD)

SOLIDS  NUM     8         "ddd.dd"
        {Domain}Definition: Percent solids (%)
        (REQUIRED FIELD)

UNITS   STR     1         "l"
        {Domain}Definition: {PAR "UNIT"}
        (REQUIRED FIELD)

CLAY    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Clay [<0.005 mm] (%) =

FINES   STR     10        "uuuuuuuuuu"
        {Domain}Definition: Fines [<0.05 mm] (%) =

H001    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.001 mm (% pass) =

H003    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer Size 0.003 mm (% pass) =

H005    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.005 mm (% pass) =

H007    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.007 mm (% pass) =

H009    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.009 mm (% pass) =

H013    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.013 mm (% pass) =

H023    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.023 mm (% pass) =

H036    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.036 mm (% pass) =

H074    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.074 mm (% pass) =

ROCKS   STR     10        "uuuuuuuuuu"
        {Domain}Definition: Rocks [>Sieve No. 4, 4.76 mm] (%) =

S063    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 230 [0.063 mm] (% pass) =

S074    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 200 [0.074 mm] (% pass) =

S090    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 170 [0.090 mm] (% pass) =

S1000   STR     10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 18 [1.00 mm] (% pass) =

S105    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 140 [0.105 mm] (% pass) =

S125    STR     10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 120 [0.125 mm] (% pass) =
S12700  STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve size 1/2" [12.7 mm] (% pass =

S150    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 100 [0.15 mm] (% pass) =

S19100  STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve size 3/4" [19.1 mm] (% pass =

S2000   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 10 [2.00 mm] (% pass) =

S250    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 60 [0.25 mm] (% pass) =

S25400  STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve size 1" [25.4 mm] (% pass) =

S420    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 40 [0.42 mm] (% pass) =

S4750   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 4 [4.75 mm] (% pass) =

S500    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 35 [0.50 mm] (% pass) =

S6350   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve size 1/4" [6.35 mm] (% pass =

S840    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 20 [0.84 mm] (% pass) =

S9520   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve size 3/8" [9.52 mm] (% pass =

SAND    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sand [>0.05 mm] (%) =

SILT    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Silt [0.05 - 0.005 mm] (%) =

H019    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.019 mm (% pass) =

H050    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Hydrometer size 0.050 mm (% pass) =

S1190   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 16 [1.19 mm] (% pass) =

S2380   STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 8 [2.38 mm] (% pass) =

S297    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 50 [0.297 mm] (% pass) =

S590    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 30 [0.59 mm] (% pass) =

S177    STR    10        "uuuuuuuuuu"
        {Domain}Definition: Sieve No. 80 [0.177 mm] (% pass) =

RINSEATESTR    10        "uuuuuuuuuu"
```

```
        {Domain}Definition: Rinseate water particles (% pass) =

COMMENT STR    62      "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDER STR    8      "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE   STR     8      "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

3.18 DESCRIPTORS AND VALUES - TABLE CFRQDV

```
SURVEY   STR     8        "uuuuuuuu"
         {Domain}Definition: {SU}
         (REQUIRED FIELD - PRIMARY KEY PART 1)

LABSAMPL STR    12        "uuuuuuuuuuuu"
         {Domain}Definition: Laboratory Sample ID
         (REQUIRED FIELD - PRIMARY KEY PART 2)

CHE      STR     8        "uuuuuuuu"
         {Domain}Definition: {EISCHE} name code
         (REQUIRED FIELD - PRIMARY KEY PART 3)

QDES      STR     2       "uu"
         {Domain}Definition: {PAR "QDES"}

BATCH    STR     8        "uuuuuuuu"
         {Domain}Definition: QA/QC Batch
         (REQUIRED FIELD)

LAB      STR     4        "uuuu"
         {Domain}Definition: {ORG}Laboratory performing analysis
         (REQUIRED FIELD)

BASIS    STR     3        "uuu"
         {Domain}Definition: {PAR "BASI"}Measurement
         (REQUIRED FIELD)

TREATMEN STR     1        "u"
         {Domain}Definition: {PAR "TREA"}Lab treatment
         (REQUIRED FIELD)

AMETHOD  STR     2        "uu"
         {Domain}Definition: {PAR "METH"}Analysis meth
         (REQUIRED FIELD)

DOCUMENT STR    24        "uuuuuuuuuuuuuuuuuuuuuuuu"
         {Domain}Definition: {RDM}

DOCPAGE  STR    10        "rrrrrrrrrr"
         {Domain}Definition: Source page/section/record

PVALUE   STR    10        "uuuuuuuuuu"
         {Domain}Definition: Descriptor Value
         (REQUIRED FIELD)

REVIEWER STR     8        "uuuuuuuu"
         {Domain}Definition: QC data reviewer

COMMENT  STR    62        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Comment

RECORDER STR     8        "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8        "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.19 RECORDS AND DOCUMENTS - TABLE CFRRDM

```
DOCUMENT STR    24       "uuuuuuuuuuuuuuuuuuuuuuuu"
         {Domain}Definition: {RDM}
         (REQUIRED FIELD - PRIMARY KEY PART 1)

DOCLOC   STR    15       "rrrrrrrrrrrrrrr"
         {Domain}Definition: Document Location

AUTHOR   STR    25       "rrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Primary author (last,f.m.)
         (REQUIRED FIELD)


AORG     STR     4       "uuuu"
         {Domain}Definition: {ORG}Author organization

DATE     STR     8       "dd/dd/dd"
         {Domain}Definition: Date (m/d/y)
         (REQUIRED FIELD)


DOCSIZE  STR     8       "rrrrrrrr"
         {Domain}Definition: Document size

PROJECTS STR     8       "rrrrrrrr"
         {Domain}Definition: Projects codes

AUTHORS  STR    80       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Other authors

TITLE    STR   235       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
                         rrrrrrrrrrrrr"
         {Domain}Definition: Document title
         (REQUIRED FIELD)

SOURCE   STR    45       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Document source (publisher)

SORG     STR     4       "uuuu"
         {Domain}Definition: {ORG}Source organization

ADDRESSE STR     8       "uuuuuuuu"
         {Domain}Definition: {RDX}Addressee code

OTHERDOC STR    25       "rrrrrrrrrrrrrrrrrrrrrrrrr"
         {Domain}Definition: Other document identification

OORG     STR     4       "uuuu"
         {Domain}Definition: {ORG}Other organization

ABSTRACT STR   313       "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr
                         rrrrrrrrrrrr"
         {Domain}Definition: Abstract

RECORDER STR     8       "uuuuuuuu"
         {Domain}Definition: {RDX}

RDATE    STR     8       "dd/dd/dd"
         {Domain}Definition: Recorded Date (m/d/y)
```

3.20 RECORD AND DOCUMENT ENTITY LINK - TABLE CFRRDE

```
DOCUMENT STR    12        "uuuuuuuuuuuu"
        {Domain}Definition: {RDM}
        (REQUIRED FIELD - PRIMARY KEY PART 1 AND LINK TO PARENT TABLE)

TABLE#   STR    8         "uuuuuuuu"
        {Domain}Definition: EIS table type name
        (REQUIRED FIELD - PRIMARY KEY PART 2)

KEYVALUE STR    40        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Foreign key value
        (REQUIRED FIELD - PRIMARY KEY PART 3)

INFO     STR    1         "u"
        {Domain}Definition: {PAR "INFO"}

COMMENT  STR    62        "rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr"
        {Domain}Definition: Comment

RECORDER STR    8         "uuuuuuuu"
        {Domain}Definition: {RDX}

RDATE    STR    8         "dd/dd/dd"
        {Domain}Definition: Recorded Date (m/d/y)
```

1 MISCELLANEOUS PARAMETERS

Throughout the CFDMS, many fields are coded to reduce typing and storage space, and to provide the means to ensure referential integrity. Acceptable values to be used in these fields, along with the meaning of the value, are provided in various CFDMS tables. In order to reduce the number of tables in the system, many of these codes are grouped in a table of miscellaneous parameters, EISPAR, summaries of which are provided below. If the value necessary to complete a given field is not defined in the following tables, the data system administrator will code additional values and update the list.

Table II - Index to Miscellaneous Reference Code Types

CODETYPE	DESCRIPTION
0037	Material Analyzed
0093	Sphere Observed
0101	Sex
0110	Wind-current direction
0148	Life History
0346	Discharge-water type
0347	Wet/Dry period
0376	Gear Type
ABL	Level A/B report codes
BANK	Drainage channel bank
BASI	Basis for analysis
BTYP	CLP SOW Form column codes
CLPC	Analyte value concentration flag codes
CLPL	Concentration level codes
CLPM	Sample matrix codes
CLPQ	Reported value qualifiers
DIS	Describes the distribution of a pathological condition
DRIL	Well drilling method
DVAL	Qualifiers assigned as result of data undergoing validation
ETYP	Entity type - EIS table names
FLD	Floodplain/tidal area
GEO	Geological descriptors
INFO	Information orientation of document
METH	Analysis method
PERF	Defines the ground water well casing perforation method
QDES	Data validation descriptor codes
RDC	Records and Document Classification subjects
REV	Revision level
SDOC	Shipping documentation
SEV	Severity
STAT	Status
STYP	Defines the type of data contained in a record
TREA	Laboratory treatment codes
UNIT	Unit codes
WELL	Ground water well use
WELLOG	Well log code

XYDATUM	Horizontal reference datum
XYMETHOD	Method horizontal coordinates established
ZDATUM	Evaluation reference datum
ZMETHOD	Method elevation established
ZONE	State Plane coordinate zones for various states

Table III - Reference Codes

PARAMETER CODE TYPE	CODE	DESCRIPTION
0037	01	Muscle
0037	02	Liver
0037	03	Digestive Gland
0037	04	Gonad
0037	05	Gills
0037	06	Kidney
0037	07	Spleen
0037	08	Heart
0037	09	Brain
0037	10	Blood
0037	11	Stomach Content
0037	12	Top 1.5" of sediment core
0037	13	Middle 1.5" of sediment core
0037	14	Remainder of sediment core
0037	15	Whole organism
0037	16	Water
0037	17	Particulate matter
0037	18	Internal organs
0037	19	Soft parts
0037	20	Arm
0037	21	Body
0037	22	Body wall
0037	23	Eggs
0037	24	Foot
0037	25	Blade
0037	26	Sporophyll
0037	27	Stalk muscle
0037	28	Abdomen
0037	29	Tail muscle
0037	30	Whole organism
0037	31	Surface sediment
0037	32	Undifferentiated sediment
0037	33	Zooplankton
0037	34	Undifferentiated plankton
0037	35	Phytoplankton
0037	36	Sediment extracts
0037	37	Orchard leaves
0037	38	Bovine liver
0037	40	Sediment core
0037	51	Aliphatic fraction
0037	52	Aromatic fraction
0037	53	Asphaltine fraction
0037	EX	External Exam of organism (for pathology).
0093	1	Air
0093	2	Surface-floating
0093	3	Water Column
0093	4	Surface Sediments (0 to 0.05 m in depth)
0093	5	Land

0093	6	Biota
0093	62	Bacteria
0093	63	Invertebrates
0093	64	Birds
0093	65	Fish
0093	66	Mammals
0093	67	Phytoplankton
0093	68	Zooplankton
0093	7	Interstitial water
0093	8	Suspended particulate matter
0093	9	Re-suspended sediment
0093	A	Suspended solids
0093	B	Sewage sludge
0093	C	Atmospheric particles
0093	D	Dust
0093	DW	Decon wipe
0093	E	Gases
0093	EP	EP toxicity extract
0093	F	Concretions, ocean floor
0093	G	Industrial waste
0093	H	Groundwater
0093	I	Leachate
0093	J	Sludge fraction
0093	K	Effluent
0093	K1	Lab scale treatability effluent
0093	L	Runoff
0093	M	Alluvium
0093	N	Flue Dust
0093	O	Oil
0093	P	Tailings
0093	Q	Dredge Spoil
0093	R	Drilling Muds
0093	RI	Rinsate
0093	S	Subsurface sediments (greater than 0.05 m in depth)
0093	T	Soils
0093	TE	Total CLP extract
0093	U	Oil dispersants
0093	V	Elutriate
0093	W	Miscellaneous fill materials
0093	X	Lime
0093	Y	Urine

0101	0	Indeterminable
0101	1	Male
0101	2	Female
0101	3	Hermaphrodite
0101	4	Transitional
0101	5	Grouped, both sexes present
0101	6	Hermaphroditic, func. female
0101	7	Hermaphroditic, func. male

0110	00	No Motion
0110	01	5-14 degrees
0110	02	15-24 degrees
0110	03	25-34 degrees
0110	04	35-44 degrees
0110	05	45-54 degrees
0110	06	55-64 degrees
0110	07	65-74 degrees
0110	08	75-84 degrees
0110	09	85-94 degrees
0110	49	Direction indeterminate

0148	0	Indeterminable
0148	1	Egg

0148	2	Nauplius
0148	3	Zoea
0148	4	Megalop
0148	5	Veliger
0148	6	Larva
0148	7	Juvenile
0148	8	Adult
0148	9	Larva, juvenile and adults
0148	A	Juveniles and adults
0148	B	Larva and juveniles
0148	C	Juv/adult-sex maturity unknown
0148	D	Polyp
0148	E	Cypris
0148	F	Copepodid
0148	G	Pupa
0148	H	Nymph
0148	I	Postlarva
0148	J	Protozoea
0148	K	Medusa
0148	L	Egg carrying female
0148	M	Egg case
0148	P	Parts
0148	Q	Immature
0148	R	Subadult
0148	S	Trochophore larvae
0148	T	Subadults and juveniles
0148	U	Mating pairs
0148	V	Mysis
0148	W	Colony
0148	X	Cyphonautes larvae
0148	Y	Yolk sac larvae
0148	Z	Glaucothoe
0346	A	River or stream
0346	B	Estuary
0346	C	Lake or pond
0346	D	Ocean or sea
0346	E	Well or groundwater
0346	F	Other
0346	M	Inland marine water
0346	P	Discharge or point source
0346	S	Drainage system
0346	T	Settling Pond for smelter waste flows
0346	W	Waterway
0347	N	Normal or average conditions
0347	W	Wet period
0376	01	Net (plankton,trummel,bongo)
0376	02	Seine (beach, purse, etc)
0376	03	Trawl (otter, beam, eastern)
0376	04	Hook and line
0376	05	Bottle(nisken, rosette, etc)
0376	06	Grab (Van Veen,etc)
0376	07	Core (piston, gravity, box, auger, etc)
0376	08	Dredge (clam,pipe,anchor,etc)
0376	09	Pump (plankton,midwater, etc.)
0376	10	Compositer, hand or automatic aliquots
0376	20	Scoop
0376	30	Scuba spear, gear bag, etc.
0376	40	"Crab" pot (may be used for shrimp, crab, etc.)
0376	50	Lysimeter
0376	99	Misc (hand-gathered,traps,etc)

ABL	A	Meets level A criteria
ABL	AA	Meets level A criteria - Administrative Record justification
ABL	B	Meets level B criteria
ABL	BA	Meets level B criteria - Administrative Record justification
ABL	R	Does not meet level A or level B criteria
ABL	RA	Does not meet level A or level B criteria - Admin. Rec. justifica
ABL	U	Level A/B designation unknown
BANK	C	Along center line of drainage channel
BANK	H	Headwaters of defined drainage
BANK	L	Left bank of discharge looking downstream
BANK	R	Right bank of drainage looking downstream
BASI	CLY	Clay size fraction, dry weight
BASI	DIS	Dissolved fraction
BASI	DRY	Dry weight, no fractionation
BASI	FIN	Standardized to % fines (clay and silt)
BASI	FNE	Clay and silt size fraction, dry weight
BASI	LCH	Soil leachate
BASI	SLT	Silt size fraction, dry weight
BASI	SND	Sand size fraction, dry weight
BASI	SUS	Suspended (particulate) fraction
BASI	TOC	Standardized to total organic carbon
BASI	WET	Wet weight (whole water or undried soil)
BTYP	BC1	Cont control blank 1
BTYP	BC2	Cont control blank 2
BTYP	BC3	Cont control blank 3
BTYP	BIC	Initial control blank
BTYP	BP1	Prep blank number 1
BTYP	BP2	Prep blank number 2
BTYP	BXC	Cont. blank frequency
BTYP	BXP	Preparation blank frequency
BTYP	C%1	Continuing calibration 1 % recovery
BTYP	C%2	Continuing calibration 2 % recovery
BTYP	C%A	AA standard source % recovery
BTYP	C%I	Initial calibration % recovery
BTYP	C%P	ICP std source final % recovery
BTYP	C%PI	ICP std source initial % recover
BTYP	CCA	AA calibration correlation coefficient
BTYP	CCV	CV calibration correlation coefficient
BTYP	CF1	Continuing calibration 1 found
BTYP	CF2	Continuing calibration 2 found
BTYP	CFA	AA standard source found
BTYP	CFI	Initial calibration value found
BTYP	CFP	ICP std source final found
BTYP	CFPI	ICP std source initial found
BTYP	CT1	Continuing calibration 1 true
BTYP	CTA	AA standard source true
BTYP	CTI	Initial calibration value true
BTYP	CTPI	ICP std source initial true
BTYP	CXA	AA calibration frequency
BTYP	CXC	Cont. calibration frequency.
BTYP	CXP	ICP calibration frequency
BTYP	CXV	CV calibration frequency
BTYP	D%	Percent Duplicate difference
BTYP	DR	Duplicate result
BTYP	DS	Sample result (duplicate)
BTYP	DX	Duplicate frequency
BTYP	E%D	Serial dilutions, % difference
BTYP	ED	Serial dilution value
BTYP	EDI	Serial dilution, initial value
BTYP	EXD	Serial dilution frequency
BTYP	HT	Holding times
BTYP	I%F	Interference check final % recovery

BTYP	I%I	Interference check initial % recovery
BTYP	IFA	Interference check final A value
BTYP	IFAB	Interference check final AB value
BTYP	IIA	Interference check initial A value
BTYP	IIAB	Interference check initial AB value
BTYP	ITA	Interference check true A value
BTYP	ITAB	Interference check true AB value
BTYP	IX	ICS frequency
BTYP	L%A	Lab control-aqueous % recovery
BTYP	L%S	Lab control-solid
BTYP	LFA	Lab control-aqueous found
BTYP	LFS	Lab control-solid found
BTYP	LTA	Lab control-aqueous true
BTYP	LTS	Lab control-solid true
BTYP	LXA	Lab control frequency-aqueous
BTYP	LXS	Lab control frequency-Solid
BTYP	MC	Standard additions correlation coefficient
BTYP	MS	Standard addition spike concentration
BTYP	QIDL	Quarterly instrument detection limits
BTYP	S%	Spike % recovery (pre digestion)
BTYP	S%P	Spike % recovery (post-digestion)
BTYP	SA	Spike added
BTYP	SAP	Spike added (post digest)
BTYP	SR	Spiked result (pre-digestion)
BTYP	SRP	Spiked result (post-digestion)
BTYP	SSR	Sample result (spike)
BTYP	SSRP	Sample result (post digest spike)
BTYP	SX	Spike frequency (pre-digestion)
CLPC	B	Reported value less than contract limit but greater than detec
CLPC	G	Analyte value is greater than reported upper limit
CLPC	U	Analyte undetected. Reported value is detection limit
CLPL	L	Low concentration level
CLPL	M	Medium concentration level
CLPM	S	Sample is soil or sediment with greater than 1% solids
CLPM	W	Sample is fully aqueous or less than 1% solids
CLPQ	*	Duplicate analysis not within control limits (SOW 784, 785, 78
CLPQ	+	Correlation coefficient for the MSA is less than 0.995 (SOW 78
CLPQ	E	Reported value estimated because of the presence of interferenc
CLPQ	M	Duplicate injection precision not met (SOW 785, 787)
CLPQ	N	Spiked sample recovery not within control limits (SOW 785, 787
CLPQ	R	Spiked sample recovery not within control limits (SOW 784)
CLPQ	S	Reported method determined by Method of Standard Additions (SO
CLPQ	W	Post-digestion spike for Furnace AA out of control limits (SOW
CNTY	MT	Montana - unknown county
CNTY	MT001	Beaverhead
CNTY	MT003	Big Horn
CNTY	MT005	Blaine
CNTY	MT007	Broadwater
CNTY	MT009	Carbon
CNTY	MT011	Carter
CNTY	MT013	Cascade
CNTY	MT015	Choteau
CNTY	MT017	Custer
CNTY	MT019	Daniels
CNTY	MT021	Dawson
CNTY	MT023	Deer Lodge
CNTY	MT025	Fallon
CNTY	MT027	Fergus
CNTY	MT029	Flathead
CNTY	MT031	Gallatin

CNTY	MT033	Garfield
CNTY	MT035	Glacier
CNTY	MT037	Golden Valley
CNTY	MT039	Granite
CNTY	MT041	Hill
CNTY	MT043	Jefferson
CNTY	MT045	Judith Basin
CNTY	MT047	Lake
CNTY	MT049	Lewis and Clark
CNTY	MT051	Liberty
CNTY	MT053	Lincoln
CNTY	MT055	McCone
CNTY	MT057	Madison
CNTY	MT059	Meagher
CNTY	MT061	Mineral
CNTY	MT063	Missoula
CNTY	MT065	Musselshell
CNTY	MT067	Park
CNTY	MT069	Petroleum
CNTY	MT071	Phillips
CNTY	MT073	Pondera
CNTY	MT075	Powder River
CNTY	MT077	Powell
CNTY	MT079	Prairie
CNTY	MT081	Ravalli
CNTY	MT083	Richland
CNTY	MT085	Roosevelt
CNTY	MT087	Rosebud
CNTY	MT089	Sanders
CNTY	MT091	Sheridan
CNTY	MT093	Silver Bow
CNTY	MT095	Stillwater
CNTY	MT097	Sweet Grass
CNTY	MT099	Teton
CNTY	MT101	Toole
CNTY	MT103	Treasure
CNTY	MT105	Valley
CNTY	MT107	Wheatland
CNTY	MT109	Wibaux
CNTY	MT111	Yellowstone

DIS	1	Focal
DIS	2	Multifocal
DIS	3	Diffuse

DRIL	A	Auger
DRIL	B	Bucket auger
DRIL	C	Cable tool
DRIL	H	Hand dig
DRIL	R	Rotary-air

DVAL	A	Justified for unrestricted use (enforcement quality) - see Adm
DVAL	J	Associated value is estimated
DVAL	R	Data are rejected as unusable
DVAL	U	Analyzed for but not detected. Value is est. quantification l

ETYP	AI	Environmental Information System (EIS) Activities table
ETYP	CFO	Environmental Information System (EIS) Field Observation table
ETYP	CPO	Environmental Information System (EIS) Conventional Water Obse
ETYP	CU	Environmental Information System (EIS) USGS Cataloging Unit Co
ETYP	IAO	Environmental Information System (EIS) Air Inorganic Chemical
ETYP	ICL	Environmental Information System (EIS) Inorganic Chemicals QC
ETYP	ICO	Environmental Information System (EIS) Inorganic Chemicals Obs
ETYP	ICQ	Environmental Information System (EIS) Inorganic Chemicals QC
ETYP	ORG	Environmental Information System (EIS) Organization table

ETYP	PAR	Environmental Information System (EIS) Miscellaneous Parameter
ETYP	PPO	Environmental Information System (EIS) Pesticides and PCB Obse
ETYP	QDV	Environmental Information System (EIS) Descriptors and Values
ETYP	RDM	Environmental Information System (EIS) Records and Documents t
ETYP	RDX	Environmental Information System (EIS) Rolodex table
ETYP	RE	Environmental Information System (EIS) USGS Surface Water Reac
ETYP	RNO	Environmental Information System (EIS) Radionuclide Observatio
ETYP	SA	Environmental Information System (EIS) Sample table
ETYP	SC	Environmental Information System (EIS) Sample Container (sub-s
ETYP	SPO	Environmental Information System (EIS) Conventional Solids Obs
ETYP	ST	Environmental Information System (EIS) Station table
ETYP	SU	Environmental Information System (EIS) Survey table
ETYP	SVO	Environmental Information System (EIS) Semi-vol Organic Chem O
ETYP	VOO	Environmental Information System (EIS) Volatile Organic Chem O
ETYP	WEL	Environmental Information System (EIS) Well table
FLD	A	Above floodplain
FLD	I	Intermittently covered with flood waters
FLD	S	Always under water
FLD	F1	Within 100 year flood fringe
FLD	F5	Within 500 year flood fringe
FLD	P1	Within 100 year flood plain
FLD	F5	Within 500 year flood plain
FLD	W1	Within 100 year floodway
FLD	W5	Within 500 year floodway
GEO	QAL	Unconsolidated stream, glacio fluvial, & stope-wash deposits
GEO	QTR	Light to medium gray travertine limestone
GEO	TAL	Unknown reference from Tetra Tech SBC data
GEO	TH	Boulder conglomerate to shale
GEO	TQM	Unknown reference from Tetra Tech SBC data
GEO	TS	Unknown reference from Tetra Tech SBC data
GEO	TT	Unconsolidated well sorted clay,silt,sand,gravel,cobbles
GEO	TTR	Light to medium gray travertine limestone
GEO	TU	Undifferentiated sedimentary igneous & metamorphic rocks
GEO	TV	Undifferentiated andesite and acidic volcanic rocks
GEO	TVT	Layered gray to greenish gray volcanic tuff
INFO	D	Document contains observation data or entity characteristics
INFO	L	Document contains legal or administrative policy, criteria, sp
INFO	R	Document contains management or general report on findings, ap
INFO	T	Document contains technical discussion or analysis
METH	A	AA spectrometry, flame; run at lower temp than furnace
METH	AS	Semi-Automated Spectrophotometric
METH	AV	AA spectrometry, automatic cold vapor
METH	C	Manual Spectrophotometric
METH	CV	AA spectrometry, manual cold vapor
METH	F	AA spectrometry, flameless. Graphite, Zeeman or other furnace
METH	H	AA spectrometry, hydride generation
METH	P	Inductively coupled plasma
METH	T	Titrimetric
PERF	1	Open bottom only
PERF	2	Slotted with Mill's knife
PERF	3	Slotted with torch
PERF	4	Saw cut
PERF	5	Factory slotted - 0.030 in
PERF	6	Factory slotted - 0.010 in
PERF	7	Screened and pulled casing
QDES	B	Qualified due to blank contamination problems
QDES	BP	Qualified due to preparation blank contamination
QDES	BX	Qualified due to Blank frequency
QDES	C	Qualified due to instrument calibration problems

QDES	C%	Qualified due to calibration percent recovery
QDES	CC	Qualified due to calibration correlation coefficient
QDES	CL	Qualified due to calibration linear range problems
QDES	CX	Qualified due to calibration frequency
QDES	D	Qualified due to duplicate control problems
QDES	D%	Qualified due to percent duplicate difference
QDES	DX	Qualified due to duplicate frequency
QDES	E	Qualified due to interference problems - serial dilution
QDES	E%	Qualified due to serial dilution percent difference
QDES	EU	Qualified due to Interference (unexplained)
QDES	EX	Qualified due to serial dilution frequency
QDES	G	Qualified due to GFAA spike results out of control limits
QDES	GS	QUalified due to GFAA Spike results out of control limits
QDES	H	Qualified due to holding time violation
QDES	HT	Qualified due to holding time violation
QDES	I	Qualified due to ICP interference check sample problems
QDES	I%	Qualified due to ICS percent recovery
QDES	IU	Qualified due to Interference (unexplained)
QDES	IX	Qualified due to ICS frequency
QDES	L	Qualified due to LCS problems
QDES	L%	Qualified due to lab control sample percent recovery
QDES	LX	Qualified due to lab control sample frequency
QDES	M	Qualified due to MSA correlation coefficient problems
QDES	MC	Qualified due to MSA correlation coefficient problems
QDES	Q	Qualified due to other QC violations
QDES	S	Qualified due to matrix spike problems
QDES	S%	Qualified due to spike percent recovery
QDES	SX	Qualified due to spike frequency
RDC	BA	Bioassay
RDC	BE	Bioaccumulation/Bio effects
RDC	BP	Biological Processes
RDC	CA	Case Study
RDC	CC	Chemical Concentrations
RDC	CP	Chemical Processes
RDC	CS	Community Structure
RDC	EA	Economic Analysis
RDC	EI	Environmental Impacts
RDC	FA	Environmental fate of chemicals
RDC	FE	Field Experiment
RDC	FI	Fisheries
RDC	GE	General
RDC	HI	History/Geological setting
RDC	HU	Human Use/health
RDC	LE	Laboratory Experiment
RDC	MP	Modeling Parameters and Processes
RDC	MT	Methodology/Technology
RDC	NA	Not applicable
RDC	OT	Other
RDC	PA	Pathology/Carcinogenicity
RDC	PE	Actual performance or analysis of performance
RDC	PP	Physical Processes
RDC	PT	Plume and Trajectory
RDC	RA	Risk Analysis
RDC	RE	Recommendations
RDC	RP	Regulations/Policy
RDC	SA	Safety/Quality Control
RDC	SI	Source Identification
RDC	SU	Summary of Studies
RDC	TD	Transport and Dispersion
REV	A	File is continually updated. Does not exist in final form.
REV	D	Draft - not in final form or previous version of final doc't
REV	F	Final and complete version

SDOC	C	Shipping documentation is complete
SDOC	I	Shipping documentation is incomplete
SDOC	I1	Shipping documentation is incomplete - lacks shipping date
SDOC	I2	Shipping documentation is incomplete - lacks carrier identific
SDOC	I3	Shipping documentation is incomplete - lacks field signature
SDOC	I4	Shipping documentation is incomplete - lacks lab signature
SDOC	I5	Shipping documentation is incomplete - missing more than one
SEV	1	Mild
SEV	2	Moderate
SEV	3	Severe
STAT	C	Continuous process
STAT	D	Discontinued
STAT	I	Intermittent
STAT	P	Planned process
STYP	DU	Duplicate sample
STYP	FB	Field rinse blank used to determine field interference
STYP	FD	Environmental measurement (as opposed to data reported for bla
STYP	FQ	Field QC sample of unknown type
STYP	FR	Reference sample prepared in field
STYP	FS	Spiked sample prepared in field
STYP	FT	Trip blank prepared in field at end of sample day
STYP	LB	Lab reagent blank used to determine analysis interference
STYP	LC	Lab calibration blank
STYP	LD	Lab serial dilution sample
STYP	LI	Lab interference check sample
STYP	LR	Reference sample prepared in lab
STYP	LS	Spiked sample prepared in lab
STYP	SS	Split sample sent to referee lab
TREA	A	Acid Soluble
TREA	C	CLP Metals (Hydrochloric acid or Nitric acid)
TREA	D	Plant available (pH>6) DTPA digestion
TREA	E	EPTOX (Acid soluble digestion)
TREA	L	Leachate
TREA	N	No treatment identified
TREA	P	Plant available (pH<=6) Mehlich digestion
TREA	R	Total recoverable metals (Mild acid preservation - Nitric)
TREA	S	Saturated Paste Extract - Chen Northern
TREA	T	Total CLP metals
TREA	X	Total extractable metals
UNIT	%	Ratio in percent
UNIT	B	ug/L for water matrix and ug/Kg for solid matrix pci/ml for water matrix and pci/g for solid matrix (radionuclide)
UNIT	C	Correlation coefficient
UNIT	D	Time in days
UNIT	M	mg/L for water matrix and mg/Kg for solid matrix uci/ml for water matrix and uci/g for solid matrix (radionuclide)
UNIT	R	Ratio
WELL	A	Agency/institution water supply
WELL	D	Domestic
WELL	I	Industrial
WELL	L	Lysimeter
WELL	M	Monitoring
WELL	P	Public/municipal water supply
WELL	S	Stock watering
WELLLOG	N	No well log available
WELLLOG	Y	Well log available

XYDATUM	00	Unknown horizontal reference datum
XYDATUM	27	North American horizontal reference datum 1927
XYDATUM	83	North American horizontal reference datum 1983
XYMETHOD	C	Horizontal coordinates calculated from map
XYMETHOD	D	Horizontal coordinates digitized from map
XYMETHOD	G	Horizontal coordinates from global positioning system
XYMETHOD	I	Imported from data file source, method unknown
XYMETHOD	L	Horizontal coordinates from radio triangulation
XYMETHOD	P	Calculated from State Plane coordinate source
XYMETHOD	S	Horizontal coordinates from conventional survey
XYMETHOD	T	Horizontal coordinates calculated from TRS grid cell (ABCD)
XYMETHOD	U	Horizontal coordinates from unknown method
XYMETHOD	X	Converted from Lat/Long (conversion error about +- 50 ft)
ZDATUM	00	Unknown vertical reference datum
ZDATUM	29	National Geodetic Vertical Datum 1929
ZDATUM	88	North American Vertical Datum 1929
ZMETHOD	A	Vertical coordinates from altimeter
ZMETHOD	G	Vertical coordinates from Global Positioning System
ZMETHOD	M	Vertical coordinates from topographic map interpolation
ZMETHOD	S	Vertical coordinates from survey
ZMETHOD	U	Vertical coordinates from unknown method
ZONE	MTC	Central SPC Zone for Montana State
ZONE	MTN	North SPC Zone for Montana State
ZONE	MTS	South SPC Zone for Montana State
ZONE	MTU	Unknown SPC Zone for Montana State

2 CHEMICAL FIELD NAMES

One of the greater difficulties in assimilating data from multiple sources is determining what chemicals are associated with a particular field identifier. This is especially difficult when dealing with organics data, where virtually every data producer develops a mnemonic naming scheme for his own purpose. The CFDMS utilizes two basic approaches in developing field names. Mnemonics are generally used for conventional parameters and inorganic chemicals, where the association between the mnemonic and the actual name is usually clear. While it would be possible to adopt a set of mnemonic names for fields identifying organic chemicals, it is difficult to develop a set which would be explicit to all users without the aid of a translation table. An available standard in this area is the CAS number, from which the organic chemical field names in the CFDMS are derived. Without a translation table, the CFDMS field names can be associated with a specific CAS number and chemical name; knowing the CAS number, it is possible to find the associated CFDMS field. To derive the CFDMS field names, the hyphens are removed from the CAS number (to reduce the size of the name to an acceptable length) and a leading alpha character is added (required by Knowledgeman and other data bases for valid field names). Exceptions to this rule take place when the CAS number is too long (in which case it is truncated) and when no CAS number has been assigned, as in the case of fields for reporting totals for a particular group (in which case a mnemonic name is assigned).

CFDMS field names and their associated parameters are listed by table in Section II.B.3 of this *Reference*. To further facilitate this association, all CFDMS field names are listed in Table IV, grouped by type. CFDMS field names derived from the CAS number are then again listed in Table V, ordered by CAS number.

Table IV - Field Names Grouped by Type

TYPE	NAME	CAS#	CFDMS FIELD NAME
Alcohol	1,3-Dichloro-2-propanol	96-23-1	M96231
	allyl alcohol	107-18-6	C107186
	amyl alcohol	71-41-0	C71410
	benzyl alcohol	100-51-6	B100516
	butyl alcohol	71-36-3	M71363
	diethylene glycol	111-46-6	C111466
	ethanol	64-17-5	C64175
	ethylene glycol	107-21-1	M107211
	ethylhexanol,2-	104-76-7	C104767
	Isobutyl alcohol	78-83-1	V78831
	isopropanol	67-63-0	M67630
	methanethiol	74-93-1	M74931
	methanol	67-56-1	M67561
	N-hexyl alcohol	111-27-3	C111273
	nitrocellulose	9004-70-0	C9004700
	nitroglycerin	55-63-0	C55630
	propargyl alcohol	107-19-7	C107197
	propyl alcohol,n-	71-23-8	C71238
	terpineol,alpha-	98-55-5	C98555
Aldehyde	acetaldehyde	75-07-0	M75070
	acrolein	107-02-8	V107028
	butyraldehyde	123-72-8	M123728
	chloral	75-87-6	C75876
	chloroacetaldehyde	107-20-0	M107200
	crotonaldehyde	4170-30-3	C4170303

	formaldehyde	50-00-0	V50000
	heptaldehyde	111-71-7	C111717
	hydroxybenzaldehyde,4-	123-08-0	C123080
	propionaldehyde	123-38-6	C123386
Amide	acrylamide	79-06-1	M79061
	dimethylformamide	68-12-2	C68122
	dipropylformamide	6282-00-4	C6282004
	dithiobiuret,2,4-	541-53-7	C541537
	N-nitroso-n-ethylurea	759-73-9	M759739
	N-nitroso-n-methylurea	684-93-5	M684935
	thioacetamide	62-55-5	C62555
	thiosemicarbazide	79-19-6	C79196
	thiourea	62-56-6	M62566
	urea	57-13-6	C57136
Amine	acetyl-2-thiourea,1-	591-08-2	C591082
	butylamine	109-73-9	C109739
	dimethylaniline,2,3-	87-59-2	C87592
	dimethylcarbamoyl chloride	79-44-7	C79447
	Dimethylphenethylamine,a,a-	122-09-8	S122098
	ethylamine	75-04-7	C75047
	ethylenediamine	107-15-3	C107153
	hexamethylenediamine	124-09-4	C124094
	MNNG	70-25-7	C70257
	N-nitroso-di-n-propylamine	621-64-7	B621647
	N-nitroso-dimethylamine	62-75-9	B62759
	n-nitrosodi-n-butylamine	924-16-3	S924163
	N-nitrosodiethanolamine	1116-54-7	C1116547
	N-nitrosodiethylamine	55-18-5	S55185
	N-nitrosomethylethylamine	10595-95-6	S1059595
	N-nitrosomethylvinylamine	4549-40-0	C4549400
	N-nitrososarcosine	13256-22-9	C1325622
	N-propylamine	107-10-8	C107108
	nitrogen mustard	51-75-2	C51752
	nitrogen mustard, hydrochloride salt	55-86-7	C55867
	nitrogen mustard, n-oxide	126-85-2	C126852
	nitrogen mustard, n-oxide hydrochloride salt	302-70-5	C302705
	nitroguanidine	556-88-7	C556887
	nitrosodiphenylamine,4-	156-10-5	C156105
	triethanolamine	102-71-6	C102716
Aromatic	Acetophenone	98-86-2	S98862
	Acetylaminofluorene,2-	53-96-3	S53963
	acid black 1 (c.i.no.20470)	1064-48-8	C1064488
	acid blue 113 (c.i.no.26360)	3351-05-1	C3351051
	acid orange 10 (c.i.no.16230)	1936-15-8	C1936158
	acid orange 7 (c.i.no.15510)	633-96-5	C633965
	acid orange 8 (c.i.no.15575)	5850-86-2	C5850862
	acid red 1 (c.i.no.18050)	3734-67-6	C3734676
	acid red 14 (c.i.no.14720)	3567-69-9	C3567699
	acid red 151 (c.i.no.26900)	6406-56-0	C6406560
	acid red 18 (c.i.no.16255)	2611-82-7	C2611827
	acid red 337 (c.i.no.na)	67786-14-5	C6778614
	acid red 88 (c.i.no.15620)	1658-56-6	C1658566
	acid yellow 151 (c.i.no.13960)	12715-61-6	C1271561
	acid yellow 17 (c.i.no.18965)	6359-98-4	C6359984
	acid yellow 23 (c.i.no.19140)	1934-21-0	C1934210
	acid yellow 49 (c.i.no.18640)	12239-15-5	C1223915
	acridine yellow	92-26-2	C92262
	aminobiphenyl,4-	92-67-1	S92671
	anethole	104-46-1	C104461
	aniline	62-53-3	B62533
	anisidine,2-	90-04-0	C90040
	anisidine,4-	104-94-9	C104949

anisidines	29191-52-4	C2919152
auramine	492-80-8	C492808
benzal chloride	98-87-3	C98873
benzaldehyde	100-52-7	C100527
benzene	71-43-2	V71432
benzenearsonic acid	98-05-5	C98055
benzenecarbonyl chloride	98-88-4	C98884
benzidine	92-87-5	B92875
benzidine dihydrochloride	531-85-1	C531851
benzoic acid	65-85-0	A65850
benzoquinone	106-51-4	S106514
benzothiophene	95-15-8	C95158
benzotrichloride	98-07-7	C98077
benzyl chloride	100-44-7	C100447
biphenyl	92-52-4	M92524
bromobenzene	108-86-1	C108861
bromophenyl-phenylether,4-	101-55-3	B101553
bromoxylenes	28258-59-5	C2825859
butylbenzene isomers	135-98-8	M135988
butylbenzene,tert-	98-06-6	C98066
chlorambucil	305-03-3	C305033
chlornaphazine	494-03-1	C494031
chloro-2-methylbenzenamine,4-	95-69-2	C95692
chloro-2-nitrobenzene,1-	88-73-3	C88733
chloroaniline,4-	106-47-8	B106478
chlorobenzene	108-90-7	V108907
chlorobenzoic acid,2-	118-91-2	C118912
chlorobenzoic acid,3-	535-80-8	C535808
chlorobenzoic acid,4-	74-11-3	C74113
chlorophenyl methyl sulfone,4-	98-57-7	C98577
chlorophenyl)thiourea,1-(o-	5344-82-1	C5344821
chlorophenyl-phenylether,4	7005-72-3	B7005723
chlorotoluene,o-	95-49-8	C95498
chlorotoluene,p-	106-43-4	C106434
chlorovanillin,5-	19463-48-0	C1946348
chlorovanillin,6-	18268-76-3	C1826876
citrus red no. 2	6358-53-8	C6358538
clofibric acid	882-09-7	C882097
cumene	98-82-8	M98828
cymene,p-	99-87-6	V99876
dichloroaniline,2,4-	554-00-7	C554007
dichlorobenzene,1,2-	95-50-1	B95501
dichlorobenzene,1,3-	541-73-1	B541731
dichlorobenzene,1,4-	106-46-7	B106467
dichlorobenzenes	25321-22-6	C2532122
dichlorobenzidine,3,3'-	91-94-1	B91941
dichlorophenylarsine	696-28-6	C696286
dichlorovanillin,5,6-	18268-69-4	C1826869
diethylstilbesterol	56-53-1	C56531
dihydroxy-alpha-((methylamino)methyl)benzyl a	329-65-7	C329657
dihydroxy-alpha-((methylamino)methyl)benzyl a	51-43-4	C51434
dimethoxybenzidine,3,3'-	119-90-4	C119904
Dimethylaminobenzene,p-	60-11-7	S60117
dimethylaniline, N,N-	121-69-7	S121697
dimethylaniline,2,4-	95-68-1	C95681
dimethylaniline,2,5-	95-78-3	C95783
dimethylaniline,2,6-	87-62-7	C87627
dimethylaniline,3,4-	95-64-7	C95647
dimethylaniline,3,5-	108-69-0	C108690
dimethylanilines	1300-73-8	C1300738
Dimethylbenzidine,3,3'-	119-93-7	S119937
Dinitrobenzene,1,3-	99-65-0	S99650
dinitrotoluene,2,4-	121-14-2	B121142
dinitrotoluene,2,6-	606-20-2	B606202
dinitrotoluenes	25321-14-6	C2532114

diphenylamine	122-39-4	S122394
diphenylhydrazine,1,1-	530-50-7	C530507
diphenylhydrazine,1,2-	122-66-7	B122667
direct violet 9 (c.i.no.27885)	6227-14-1	C6227141
direct yellow 28 (c.i.no.19555)	8005-72-9	C8005729
direct yellow 4 (c.i.no.24890)	3051-11-4	C3051114
ethylbenzene	100-41-4	V100414
ethyltoluene,2-	611-14-3	C611143
ethyltoluene,4-	622-96-8	C622968
hexachlorobenzene	118-74-1	B118741
hydroxybenzoic acid,4-	99-96-7	C99967
indanol,4-	1641-41-4	C1641414
indanol,5-	1470-94-6	C1470946
indene	95-13-6	C95136
melphalan	148-82-3	C148823
methyl-2-nitroaniline,4-	89-62-3	C89623
methylbenzoyl chloride,2-	933-88-0	C933880
methylenebis(2-chloroaniline),4,4'-	101-14-4	C101144
methylstyrene,4-	622-97-9	C622979
methylstyrene,alpha-	98-83-9	C98839
monochlorodehydroabietic acid	57055-38-6	C5705538
N-butylbenzene	104-51-8	C104518
N-nitrosodiphenylamine	86-30-6	B86306
N-propylbenzene	103-65-1	C103651
Naphthoquinone,1,4-	130-15-4	S130154
naphthyl-2-thiourea,1-	86-88-4	C86884
Naphthylamine,1-	134-32-7	S134327
naphthylamine,2-	91-59-8	M91598
Nitro-o-toluidine,5-	99-55-8	S99558
nitroaniline,2-	88-74-4	B88744
nitroaniline,3-	99-09-2	B99092
nitroaniline,4-	100-01-6	B100016
nitrobenzene	98-95-3	B98953
nitrobiphenyl,4-	92-93-3	C92933
nitrotoluene,4-	99-99-0	C99990
o-toluidine hydrochloride	636-21-5	M636215
pentachlorobenzene	608-93-5	S608935
Phenacetin	62-44-2	S62442
phenyl 2-propanol,2-	617-94-7	M617947
phenylenediamine,1,2-	95-54-5	C95545
phenylenediamine,1,3-	108-45-2	C108452
Phenylenediamine,p-	106-50-3	S106503
phenylthiourea	103-85-5	C103855
phthalic acid	88-99-3	C88993
phthalic anhydride	85-44-9	C85449
propenylbenzene	637-50-3	C637503
styrene	100-42-5	V100425
tetrachlorobenzene,1,2,3,4-	634-66-2	C634662
tetrachlorobenzene,1,2,3,5-	634-90-2	C634902
tetrachlorobenzene,1,2,4,5-	95-94-3	S95943
toluene	108-88-3	V108883
toluene diisocyanate,2,4-	584-84-9	C584849
toluene diisocyanate,2,6-	91-08-7	C91087
toluene-2,4-diamine	95-80-7	M95807
toluenediamine,2,5-	95-70-5	C95705
toluenediamine,2,6-	823-40-5	C823405
toluenediamine,3,4-	496-72-0	C496720
toluenesulfonate,p-	104-15-4	C104154
toluidine,p-	106-49-0	C106490
trichloroanisole,2,3,6-	50375-10-5	C5037510
trichloroanisole,2,4,6-	87-40-1	C87401
trichlorobenzene	108-70-3	V108703
trichlorobenzene,1,2,3-	87-61-6	C87616
trichlorobenzene,1,2,4-	120-82-1	B120821
tricresyl phosphate	1330-78-5	C1330785

	trimethylbenzene isomers	95-63-6	M95636
	trimethylbenzene,1,2,3-	526-73-8	C526738
	trimethylbenzene,1,3,5-	108-67-8	C108678
	trimethylbenzenes	25551-13-7	C2555113
	Trinitrobenzene,sym-	99-35-4	S99354
	trinitrophenylmethylnitramine	479-45-8	C479458
	trinitrotoluene,2,4,6-	118-96-7	C118967
	triphenylmethane	519-73-3	C519733
	trypan blue	72-57-1	C72571
	undecamethylenediamine,n,n'-bis(2-chlorobenzy	2056-25-9	C2056259
	veratrole	91-16-7	C91167
Asbestos	asbestos	1332-21-4	M1332214
Biological	algae-blue/green (ct./ml)		ALGAEBG
	algae-brown (ct./ml)		ALGAEB
	algae-green (ct./ml)		ALGAEG
	chlorophyll a (mg/m3)		CHLOROPH
	coliform (col/100ml),Fecal		FCOLI
	coliform (col/100ml),Total		TCOLI
	diatoms (ct./ml)		DIATOMS
	Fecal Streptococcus		FSTREP
	phytoplankton-total (ct./ml)		PHYTOPLA
Cyclic	abietic acid	514-10-3	C514103
	aziridine	151-56-4	C151564
	bicyclo[2.2.1]heptane-2-one,	4695-62-9	V4695629
	camphor	76-22-2	V76222
	cycloheptane	291-64-5	C291645
	cyclohexane	110-82-7	M110827
	cyclohexanone	108-94-1	M108941
	cyclohexylamine	108-91-8	C108918
	cyclopropylbenzene	873-49-4	C873494
	dehydroabietic acid	1740-19-8	C1740198
	dichlorodehydroabietic acid	57055-39-7	C5705539
	dicyclopentadiene	77-73-6	C77736
	epichlorohydrin	106-89-8	M106898
	geosmin	19700-21-1	C1970021
	guanine	73-40-5	C73405
	hexachlorocyclopentadiene	77-47-4	B77474
	isophorone	78-59-1	B78591
	isopimaric acid	5835-26-7	C5835267
	lasiocarpine	303-34-4	C303344
	methyl-cyclohexane	108-87-2	V108872
	methylcyclopentane	96-37-7	M96377
	methylisoborneol	68330-44-9	C6833044
	methylisoborneol,2-	2371-42-8	C2371428
	pimaric acid	127-27-5	C127275
	propylenimine,1,2-	75-55-8	C75558
	trimethyl-2-oxabicyclo(2.2.2)octane,1,3,3-	470-82-6	C470826
	tris(1-aziridinyl)phosphine sulfide	52-24-4	C52244
Dioxin	1,2,3,4-Tetrachlorodibenzo-p-dioxin	30746-58-8	D3074658
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	9999-00-1	D9999001
	1,2,3,7-Tetrachlorodibenzo-p-dioxin	9999-00-3	D9999003
	1,3,6,8-Tetrachlorodibenzo-p-dioxin	33423-92-6	D3342392
	dioxin,2,3,7,8-tetrachlorodibenzo-p-	1746-01-6	B1746016
	heptachlorodibenzodioxin,1,2,3,4,6,7,8-	35822-46-9	D3582246
	heptachlorodibenzodioxin,total		TOTHPCDD
	hexachlorodibenzo-p-dioxin,1,2,3,6,7,8-	34465-46-8	C3446546
	hexachlorodibenzodioxin,1,2,3,4,7,8-	39227-28-6	D3922728
	hexachlorodibenzodioxin,1,2,3,6,7,8-	57653-85-7	D5765385
	hexachlorodibenzodioxin,1,2,3,7,8,9-	19408-74-3	D1940874
	hexachlorodibenzodioxin,total		TOTHXCDD
	octachlorodibenzodioxin,total	3268-87-9	D3268879

	pentachlorodibenzo-p-dioxin,1,2,4,7,8-	58802-08-7	C5880208
	pentachlorodibenzodioxin,1,2,3,7,8-	40321-76-4	D4032176
	pentachlorodibenzodioxin,total		TOTPECDD
	tetrachlorodibenzo-p-dioxin,2,3,7,8-	1746-01-6	C1746016
	tetrachlorodibenzo-p-dioxins	41903-57-5	C4190357
	tetrachlorodibenzodioxin,total		TOTTCDD
Ester	azaserine	115-02-6	C115026
	butyl acetate	123-86-4	M123864
	dodecylbenzenesulfonate	1886-81-3	C1886813
	ethyl acetate	141-78-6	M141786
	ethyl carbamate	51-79-6	C51796
	ethyl methacrylate	97-63-2	C97632
	Ethyl methanesulfonate	62-50-0	S62500
	ethylhexyl acrylate,2-	103-11-7	C103117
	isobutyl acetate	110-19-0	C110190
	isocyanic acid, methyl ester	624-83-9	C624839
	isopropyl acetate	108-21-4	C108214
	lead subacetate	1335-32-6	C1335326
	methyl acetate	79-20-9	C79209
	methyl acrylate	96-33-3	C96333
	methyl chlorocarbonate	79-22-1	C79221
	Methyl methacrylate	80-62-6	S80626
	Methyl methanesulfonate	66-27-3	S66273
	N-nitroso-n-methylurethane	615-53-2	C615532
	pentaerythritol tetranitrate	78-11-5	C78115
	propyl acetate	109-60-4	C109604
	sodium dodecyl sulfate	151-21-3	C151213
	tributyl phosphate	126-73-8	C126738
	triethyl phosphate	78-40-0	C78400
	Triethylphosphorothioate,o,o,o-	126-68-1	S126681
	vinyl acetate	108-05-4	V108054
Ether	allyl ether	557-40-4	C557404
	bis(2-chloroethoxy)methane	111-91-1	B111911
	bis(2-chloroethyl)ether	111-44-4	B111444
	bis(2-chloroisopropyl)ether	108-60-1	B108601
	bis-chloromethyl ether	542-88-1	M542881
	cellosolve	110-80-5	M110805
	chloroethylvinylether,2-	110-75-8	V110758
	chloromethyl methyl ether	107-30-2	M107302
	diisopropyl ether	108-20-3	C108203
	ethyl ether	60-29-7	C60297
	methyl-tert-butyl ether	1634-04-4	C1634044
	propane),2,2'-oxybis(2-chloro-	39638-32-9	C3963832
Furan	dibenzofuran	132-64-9	B132649
	furan	110-00-9	C110009
	furfurol	98-01-1	C98011
	heptachlorodibenzofuran,1,2,3,4,6,7,8-	67562-39-4	F6756239
	heptachlorodibenzofuran,1,2,3,4,7,8,9-	55673-89-7	F5567389
	heptachlorodibenzofuran,total	38998-75-3	TOTHPCDF
	hexachlorodibenzofuran,1,2,3,4,7,8-	70648-26-9	F7064826
	hexachlorodibenzofuran,1,2,3,6,7,8-	57117-44-9	F5711744
	hexachlorodibenzofuran,1,2,3,7,8,9-	37871-00-4	F3787100
	hexachlorodibenzofuran,2,3,4,6,7,8-	60851-34-5	F6085134
	hexachlorodibenzofuran,total	55684-94-1	TOTHXCDF
	Hexachlorodibenzofurans	9999-00-2	F9999002
	octachlorodibenzofuran,total	39001-02-0	F3900102
	pentachlorodibenzofuran,1,2,3,7,8-	57117-41-6	F5711741
	pentachlorodibenzofuran,2,3,4,7,8-	57117-31-4	F5711731
	pentachlorodibenzofuran,total	57117-31-4	TOTPECDF
	Pentachlorodibenzofurans	9999-00-4	F9999004
	tetrachlorodibenzofuran,2,3,7,8-	51207-31-9	F5120731
	tetrachlorodibenzofuran,total	30402-14-3	TOTTCDF

	tetrahydrofuran	109-99-9	C109999
Heterocyclic	adenine	73-24-5	C73245
	aflatoxin	1402-68-2	M1402682
	aminopyridine,4-	504-24-5	C504245
	benz(c)acridine	225-51-4	C225514
	bromouracil,5-	51-20-7	C51207
	brucine	357-57-3	C357573
	caffeine	58-08-2	C58082
	chlorendic anhydride	115-27-5	C115275
	chlorouracil,5-	1820-81-1	C1820811
	cyanopyridine,2-	100-70-9	C100709
	cyanopyridine,3-	100-54-9	C100549
	cyanopyridine,4-	100-48-1	C100481
	cycasin	14901-08-7	C1490108
	cyclophosphamide	50-18-0	C50180
	cyclotetramethylenetetranitramine	2691-41-0	C2691410
	cyclotrimethylenetrinitramine	121-82-4	C121824
	cytosine	71-30-7	C71307
	daunomycin	20830-81-3	C2083081
	dibenz(a,h)acridine	226-36-8	C226368
	dibenz(a,j)acridine	224-42-0	C224420
	dibenzo(c,g)carbazole,7h-	194-59-2	C194592
	diepoxybutane,1,2:3,4-	1464-53-5	C1464535
	dihydrosafrole	94-58-6	C94586
	dimethyl-1,3-dioxane,2,4-	25136-55-4	C2513655
	dimethylhydantoin,5,5-	77-71-4	C77714
	dioxane,1,4-	123-91-1	V123911
	dithiane,1,2-	505-20-4	C505204
	dithiane,1,3-	505-23-7	C505237
	dithiane,1,4-	505-29-3	C505293
	ethylene oxide	75-21-8	M75218
	ethylene thiourea	96-45-7	M96457
	fluorouracil,5-	51-21-8	C51218
	isobutyl-3-methoxypyrazine,2-	24683-00-9	C2468300
	isopropyl-3-methoxypyrazine,2-	25773-40-4	C2577340
	Isosafrole	120-58-1	S120581
	isoxazolol,5-(aminomethyl)-3-	2763-96-4	C2763964
	maleic anhydride	108-31-6	M108316
	Methapyrilene	91-80-5	S91805
	methyl ethylpyridine	104-90-5	C104905
	methyl thiouracil	56-04-2	C56042
	methylene blue	61-73-4	C61734
	mitomycin c	50-07-7	C50077
	morpholine	110-91-8	C110918
	N-nitrosomorpholine	59-89-2	S59892
	N-nitrosonornicotine	16543-55-8	C1654355
	N-nitrosopiperidine	100-75-4	S100754
	N-nitrosopyrrolidine	930-55-2	S930552
	nicotine	54-11-5	C54115
	Nitroquinoline-1-oxide,4-	56-57-5	S56575
	oxathiane,1,4-	15980-15-1	C1598015
	paraldehyde	123-63-7	C123637
	Picoline,2-	109-06-8	S109068
	propane sultone,1,3-	1120-71-4	C1120714
	propylthiouracil	51-52-5	C51525
	pyridine	110-86-1	S110861
	quinaldine	91-63-4	C91634
	reserpine	50-55-5	C50555
	saccharin	81-07-2	C81072
	Safrole	94-59-7	S94597
	streptozotocin	18883-66-4	C1888366
	thymine	65-71-4	C65714
	uracil	66-22-8	C66228
	uracil mustard	66-75-1	C66751

Hydrazine	dimethyhydrazine,1,2-	540-73-8	M540738
	dimethylhydrazine,1,1-	57-14-7	C57147
	hydrazine	302-01-2	M302012
	methyl hydrazine	60-34-4	M60344
	n,n'-diethylhydrazine	1615-80-1	C1615801
Hydrocarbon	allyl chloride	107-05-1	V107051
	bromochloromethane	74-97-5	V74975
	bromodichloromethane	75-27-4	V75274
	bromoform	75-25-2	V75252
	bromomethane	74-83-9	V74839
	butadiene,1,3-	106-99-0	M106990
	butane	106-97-8	M106978
	carbon tetrachloride	56-23-5	V56235
	chloro-p-cymene	4395-80-6	C4395806
	chlorodifluoromethane	75-45-6	C75456
	chloroethane	75-00-3	V75003
	chloroform	67-66-3	V67663
	chloromethane	74-87-3	V74873
	chloroprene	126-99-8	V126998
	cis-1,3-dichloropropane	142-28-9	M142289
	decane	124-18-5	V124185
	dibromochloromethane	124-48-1	V124481
	dichloro-p-cymene	65724-12-1	C6572412
	dichlorodifluoromethane	75-71-8	V75718
	dichloroethane,1,1-	75-34-3	V75343
	dichloroethane,1,2-	107-06-2	V107062
	dichloroethanes	1300-21-6	C1300216
	dichloroethene,1,1-	75-35-4	V75354
	dichloroethene,1,2-	540-59-0	V540590
	dichloroethene,trans-1,2-	156-60-5	V156605
	dichloroethylene,1,2-cis-	156-59-2	C156592
	dichloroethylenes	25323-30-2	C2532330
	dichloropropane,1,2-	78-87-5	V78875
	dichloropropane,2,2-	594-20-7	C594207
	dichloropropene,1,2-	563-54-2	M563542
	dichloropropene,1,3-	542-75-6	V542756
	dichloropropylene,1,1-	563-58-6	C563586
	dichloropropylenes	26952-23-8	C2695223
	diethylaniline,n,n-	91-66-7	C91667
	Freon 113	76-13-1	V76131
	hexachlorobutadiene	87-68-3	B87683
	hexachloroethane	67-72-1	B67721
	Hexachloropropene	1888-71-7	S1888717
	Iodomethane	74-88-4	V74884
	methylbutane,2-	78-78-4	C78784
	methylene bromide	74-95-3	V74953
	methylene chloride	75-09-2	V75092
	N-dodecane	122-40-3	C122403
	N-eicosane	112-95-8	C112958
	N-heptadecane	628-78-7	C628787
	N-heptane	142-82-5	C142825
	N-hexacosane	630-01-3	C630013
	N-hexadecane	544-76-3	C544763
	N-hexane	110-54-3	M110543
	N-methylaniline	100-61-8	C100618
	N-octacosane	630-02-4	C630024
	N-octadecane	593-45-3	C593453
	N-pentane	109-66-0	C109660
	N-tetracosane	646-31-1	C646311
	N-tetradecane	629-59-4	C629594
	naphtha	8030-30-6	C8030306
	nitropropane,2-	79-46-9	C79469
	nonane	111-84-2	V111842

	octane	111-65-9	C111659
	Pentachloroethane	76-01-7	S76017
	picric acid	88-89-1	C88891
	pristane	1921-70-6	C1921706
	Tetrachloroethane,1,1,1,2-	630-20-6	V630206
	tetrachloroethane,1,1,2,2-	79-34-5	V79345
	tetrachloroethylene,1,1,2,2-	127-18-4	V127184
	tetrahydronaphthalene,1,2,3,4-	119-64-2	C119642
	tetranitromethane	509-14-8	C509148
	trichloroaniline,2,4,6-	634-93-5	C634935
	trichloroethane,1,1,1-	71-55-6	V71556
	trichloroethane,1,1,2-	79-00-5	V79005
	trichloroethanes	25323-89-1	C2532389
	trichloroethene (TCE)	79-01-6	V79016
	trichlorofluoromethane	75-69-4	V75694
	Trichloropropane,1,2,3-	96-18-4	V96184
	vinyl chloride	75-01-4	V75014
	xylene,m-	108-38-3	S108383
	xylene,o-	95-47-6	V95476
	xylene,p-	106-42-3	V106423
	xylenes,total	1330-20-7	V1330207
Inorganic	Alkalinity (mo)		MOALKALI
	alkalinity as CaCO3		ALKALINI
	aluminum oxide	1344-28-1	C1344281
	ammonia	7664-41-7	AMMONIA
	ammonium	14798-03-9	AMMONIUM
	ammonium nitrate	6484-52-2	C6484522
	ammonium vanadate	7803-55-6	C7803556
	anions		ANIONS
	argon	7440-37-1	ARGON
	arsenic acid, meta-	10102-53-1	C1010253
	arsenic acid,ortho-	7778-39-4	C7778394
	arsenic acid,pyro-	13453-15-1	C1345315
	arsenic pentoxide	1303-28-2	C1303282
	arsenic trioxide	1327-53-3	C1327533
	arsenic trisulfide	1303-33-9	C1303339
	barium cyanide	542-62-1	C542621
	bicarbonate as CaCO3		BICARBON
	boron	7440-42-8	BORON
	bromide ion		BROMIDE
	bromine	7726-95-6	C7726956
	calcium chromate	13765-19-0	C1376519
	calcium cyanide	592-01-8	C592018
	carbon dioxide (%)		CO2
	carbon monoxide		CO
	Carbonate		CARBONAT
	cations		CATIONS
	chlorate (as ion)	14866-68-3	C1486668
	chloride ion	16887-00-6	CHLORIDE
	chlorine	7782-50-5	CHLORINE
	chlorite (as ion)	14998-27-7	C1499827
	chromic acid	7738-94-5	C7738945
	copper (i) chloride	7758-89-6	C7758896
	copper (ii) chloride	7447-39-4	C7447394
	copper cyanide	544-92-3	C544923
	copper hydroxide	20427-59-2	C2042759
	cyanide	57-12-5	CYANIDE
	dysprosium	7429-91-6	DYSPROSI
	europium		EUROPIUM
	fermium		FERMIUM
	ferrous sulfate, heptahydrate	7782-63-0	C7782630
	ferrous sulfate, monohydrate	17375-41-6	C1737541
	ferrous sulfate, tetrahydrate	20908-72-9	C2090872
	fluoride ion	16984-48-8	FLUORIDE

fluorine	7782-41-4	FLUORINE
francium		FRANCIUM
gadolinium		GADOLINI
hardness as CaCO3		HARDNESS
holmium		HOLMIUM
hydrochloric acid	7647-01-0	M7647010
Hydrogen (%)		HYDROGEN
hydrogen cyanide	74-90-8	C74908
hydrogen fluoride	7664-39-3	C7664393
hydrogen sulfide	7783-06-4	M7783064
hydroxide as CaCO3		HYDROXID
hypochlorite (as ion)	14380-61-1	C1438061
iodine	7553-56-2	IODINE
lead chromate	7758-97-6	M7758976
lead phosphate	7446-27-7	C7446277
lutetium		LUTETIUM
mercurous nitrate	10415-75-5	C1041575
mercury fulminate	628-86-4	C628864
nickel chloride	7718-54-9	C7718549
nickel cyanide	557-19-7	C557197
nickel sulfate	7786-81-4	C7786814
nickel(ii) acetate	373-02-4	C373024
nitrate	14797-55-8	NITRATE
nitrate+nitrite		NO3NO2
nitric acid	7697-37-2	C7697372
nitric oxide	10102-43-9	NO
nitrite		NITRITE
nitrogen dioxide	10102-44-0	NO2
nitrogen oxides		NOX
nitrogen,Total		NITROGEN
Nitrogen,Total (%)		TOTALN
osmium tetroxide	20816-12-0	C2081612
oxygen (% by volume)		OXYPCT
oxygen (%)		OXYGEN
oxygen,Dissolved (ppm)		DOXYGEN
ozone		O3
pH (S.U.)		PH
phosphate,Total		PHOSPHAT
phosphoric acid	7664-38-2	C7664382
phosphorus,Ortho		ORTHOP
phosphorus,Total	7723-14-0	PHOSPHOR
Phosphorus,Total (%)	7723-14-0	TOTALP
potassium chromate	7789-00-6	C7789006
potassium cyanide	151-50-8	C151508
potassium silver cyanide	506-61-6	C506616
selenious acid	7783-00-8	C7783008
selenium	7782-49-2	SELENIUM
selenium dioxide	7446-08-4	C7446084
selenium sulfide	7446-34-6	C7446346
silica	7631-96-9	SILICA
silicate		SILICATE
silicon	7440-21-3	SILICON
silver cyanide	506-64-9	C506649
sodium azide	26628-22-8	C2662822
sodium chloride	7647-14-5	C7647145
sodium hydroxide	1310-73-2	C1310732
sodium sulfate	7757-82-6	C7757826
strontium sulfide	1314-96-1	C1314961
sulfate	14808-79-8	SULFATE
Sulfate Sulfur	10482-56-1	SSULFUR
Sulfide, Total	18496-25-8	SULFIDE
sulfur	7704-34-9	SULFUR
sulfur dioxide	7446-09-5	SO2
Sulfur, Pyritic		PSULFUR
Sulfur, Total		TSULFUR

	sulfuric acid	7664-93-9	C7664939
	thallic oxide	1314-32-5	C1314325
	thallium (i) acetate	563-68-8	C563688
	thallium (i) chloride	7791-12-0	C7791120
	thallium (i) nitrate	10102-45-1	C1010245
	thallium (i) sulfate	7446-18-6	C7446186
	thallium carbonate	6533-73-9	C6533739
	thallium selenite	12039-52-0	C1203952
	thiocyanate (as ion)	302-04-5	C302045
	Total ammonia		AMMONIAT
	tritium	10028-17-8	H3
	vanadium pentoxide	1314-62-1	C1314621
	zinc cyanide	557-21-1	C557211
Ketone	acetone	67-64-1	V67641
	bromoacetone	598-31-2	C598312
	butanone,2-	78-93-3	V78933
	carbon oxyfluoride	353-50-4	C353504
	diacetone alcohol	123-42-2	C123422
	diethyl ketone	96-22-0	C96220
	dimethyl-3-pentanone,2,4-	565-80-0	C565800
	hexanone,2-	591-78-6	V591786
	methylisobutylketone	108-10-1	V108101
	pentanedione,2,4-	123-54-6	C123546
	phorone	504-20-1	C504201
	tetramethyl-3-pentanone,2,2,4,4	815-24-7	V815247
Metal	aluminum	7429-90-5	ALUMINUM
	antimony	7440-36-0	ANTIMONY
	arsenic	7440-38-2	ARSENIC
	barium	7440-39-3	BARIUM
	beryllium	7440-41-7	BERYLLIU
	bismuth	7440-69-9	BISMUTH
	cadmium	7440-43-9	CADMIUM
	calcium	7440-70-2	CALCIUM
	cerium	7440-45-1	CERIUM
	cesium	7440-46-2	CESIUM
	chromium	7440-47-3	CHROMIUM
	chromium, hexavalent	18540-29-9	C1854029
	cobalt	7440-48-4	COBALT
	copper	7440-50-8	COPPER
	erbium	7440-52-0	ERBIUM
	gallium		GALLIUM
	germanium		GERMANIU
	gold	7440-57-5	GOLD
	hafnium		HAFNIUM
	indium		INDIUM
	iridium	7439-88-5	IRIDIUM
	iron	7439-89-6	IRON
	lanthanum	7439-91-0	LANTHANU
	lead	7439-92-1	LEAD
	lithium	7439-93-2	LITHIUM
	magnesium	7439-95-4	MAGNESIU
	manganese	7439-96-5	MANGANES
	mercury	7439-97-6	MERCURY
	molybdenum	7439-98-7	MOLYBDEN
	neodymium	7440-00-8	NEODYMIU
	nickel	7440-02-0	NICKEL
	niobium		NIOBIUM
	osmium		OSMIUM
	palladium		PALLADIU
	platinum		PLATINUM
	potassium	7440-09-7	POTASSIU
	praseodymium	7440-10-0	PRASEODY
	rhenium		RHENIUM

	rhodium		RHODIUM
	rubidium		RUBIDIUM
	ruthenium	7440-18-8	RUTHENIU
	samarium		SAMARIUM
	scandium	7440-20-2	SCANDIUM
	silver	7440-22-4	SILVER
	sodium	7440-23-5	SODIUM
	strontium	7440-24-6	STRONTIU
	tantalum		TANTALUM
	tellurium		TELLURIU
	terbium		TERBIUM
	thallium	7440-28-0	THALLIUM
	thullium		THULLIUM
	tin	7440-31-5	TIN
	titanium	7440-32-6	TITANIUM
	tungston		TUNGSTON
	vanadium	7440-62-2	VANADIUM
	ytterbium		YTTERBIU
	yttrium	7440-65-5	YTTRIUM
	zinc	7440-66-6	ZINC
	zirconium	7440-67-7	ZIRCONIU
	zirconium+hafnium		ZRHF
Mineral	Alum (% wt.)		ALUM
	Calcite (% wt.)		CALCITE
	Chalcopyrite (% wt.)		CHALCOPY
	Chlorite (% wt.)		CHLORITE
	Clays (% wt.)		CLAYS
	Gypsum (% wt.)		GYPSUM
	Hornblende [amphibole] (% wt.)		HORNBLEN
	Jarosite (% wt.)		JAROSITE
	Kaolinite (% wt.)		KAOLINIT
	Magnetite (% wt.)		MAGNETIT
	Mica/Illite (% wt.)		MICA
	Orthoclase [K feldspar] (% wt.)		ORTHOCLA
	Plagioclase feldspar (% wt.)		PLAGIOCL
	Pyrite (% wt.)		PYRITE
	Quartz (% wt.)		QUARTZ
	Siderite (% wt.)		SIDERITE
	Smithsonite (% wt.)		SMITHSON
	Sphalerite (% wt.)		SPHALERI
	Unidentified mineral (% wt.)		MINERAL
Miscellaneous	Biological Oxygen Demand (ppm)		BOD
	calamenene	1406-50-4	C1406504
	Cation Exchange Capacity (me/100g)		CEC
	gases (%),Total fixed		TGAS
	las	42615-29-2	C4261529
	Oil and grease		OILGREAS
	Oxygen Demand (%),Chemical		COD_P
	Oxygen Demand (ppm),Chemical		COD
	Rel. response to calibrant (ppm)		RRC
	salinity (ppt)		SALINITY
	trichlorosyringol	2539-26-6	C2539266
Nitrile	acenonitrile	75-05-8	V75058
	acetone cyanohydrin	75-86-5	C75865
	acrylonitrile	107-13-1	V107131
	bromochloroacetonitrile	83463-62-1	C8346362
	butanedinitrile	110-61-2	C110612
	butanenitrile	109-74-0	C109740
	butenenitrile,3-	109-75-1	C109751
	chloropropionitrile,3-	542-76-7	C542767
	cyanogen	460-19-5	C460195
	cyanogen bromide	506-68-3	C506683

	cyanogen chloride	506-77-4	C506774
	dibromoacetonitrile	3252-43-5	C3252435
	dichloroacetonitrile	3018-12-0	C3018120
	dicyanobutane,1,4-	111-69-3	C111693
	Ethyl cyanide	107-12-0	V107120
	malononitrile	109-77-3	C109773
	Methacrylonitrile	126-98-7	V126987
	trisodium nitrilotriacetate	5064-31-3	C5064313
Nitrogenous	trichloroacetonitrile	545-06-2	C545062
Organic	1,1,1-Trichloropropane	7789-89-1	M7789891
	1,1,2-Trichloropropane	598-77-6	M598776
	1,1-Dichloropropane	78-99-9	M78999
	1,2,2-Trichloropropane	3175-23-3	M3175233
	1,3-Pentadiene	504-60-9	M504609
	1,4-Dichloro-2-butene	764-41-0	M764410
	2,3-Dichloro-1-propanol	616-23-9	M616239
	2-Aminopyridine	504-29-0	M504290
	2-Butanone peroxide	1338-23-4	M1338234
	4-Chloro-o-toluidine, hydrochloride	3165-93-3	M3165933
	Acetanilide, 4'-formyl-, 4'-thiosemicarbazone	104-06-3	M104063
	acetate (as ion)	71-50-1	C71501
	alpha,alpha-Dimethylbenzylhydroperoxide	80-15-9	M80159
	benzyl-4-chlorophenol,2-	120-32-1	S120321
	bornyl acetate	5655-61-8	M5655618
	butyl bromide	109-65-9	M109659
	butyl cellosolve	111-76-2	M111762
	carbon monoxide	630-08-0	M630080
	cholestanol	80-97-7	M80977
	cholesterol (cholest-5-en-3[beta]-ol)	57-88-5	M57885
	Coal tar	8007-45-2	M8007452
	coprostanol	360-68-9	M360689
	creosote	8021-39-4	M8021394
	cresol(s),m+p-		MPCRESOL
	diethyl hexyl adipate	103-23-1	M103231
	diethylbenzene isomers	25340-17-14	M2534017
	Diisopropylfluorophosphate	55-91-5	M55915
	dimethyl disulfide	624-92-0	M624920
	dimethyl napthalene,2,6-		MENAP262
	dimethyl sulfide	75-18-3	M75183
	Dimethylethyl)phenol,4(1,1-	98-54-4	S98544
	Dipropylamine	142-84-7	M142847
	ethanol	925-93-9	M925939
	Ethyl acrylate	140-88-5	M140885
	Ethyl methacrylate	97-63-21	S976321
	Ethylenebisdithiocarbamic acid	111-54-6	M111546
	ethyltoluene isomers	620-14-4	M620144
	Extractable Organics (mg/g),Total		TEOM
	Fluoracetic acid	144-49-0	M144490
	Glycidylaldehyde	765-34-4	M765344
	halides, total organic		TOX
	hexachlorocyclohexane-tech grade	608-73-1	M608731
	hexadecandic acid	57-10-3	M57103
	hexadecanoic acid, methyl ester	106-70-7	M106707
	Lead acetate	301-04-2	M301042
	lead oxide	1317-36-8	M1317368
	m-terphenyl	92-06-8	M92068
	methane		CH4
	methane (% by volume)		METHPCT
	methyl mercury	22967-92-6	MHG
	methyl naphthalene,1-		METNAP1
	methyl-cellosolve	109-86-4	M109864
	methylamine	74-89-5	M74895
	methylcarbazole		METHYLCA

	methylpentane,1-	107-83-5	M107835
	methylpyridine		METHYLPY
	myristic acid	544-63-8	M544638
	Non-methane hydrocarbons		NMH
	Organic Carbon (%),Total		TOTALC
	organic carbon,Total (ppm)		TOC
	Organic Nitrogen		ONITROGE
	p-terphenyl	92-94-4	M92944
	polypropylene	9003-07-0	M9003070
	propylene oxide	75-56-9	M75569
	sodium chromate	7775-11-3	M7775113
	terphenyl,o-	84-15-1	M84151
	terpineol	8006-39-1	M8006391
	toluenediisocyanate	26471-62-5	M2647162
	Toluidine,o-	95-53-4	S95534
	total recoverable hydrocarbons		THC
	tribromophenol,2,4,6-	118-79-6	M118796
	Trichloromonofluoroethane	9999-00-5	M999005
	trichlorophenol,2,3,6-	93-3755	M933755
	trichlorophenylacetic acid,2,3,6-		FENAC
	Trihalomethanes,Total		THM
	trimethylfluorosilane	420-56-4	M420564
	triphenyl phosphate	115-86-6	M115866
	trithion	786-19-6	M786196
	xylenes,m+o		XYLENES
	xylenes,m+p		MPXYLENE
Organic Acid	acetic acid	64-19-7	C64197
	acetyl chloride	75-36-5	C75365
	acrylic acid	79-10-7	C79107
	adipic acid	124-04-9	C124049
	Benzenesulfonyl chloride	98-09-9	M98099
	butyric acid	107-92-6	C107926
	dichlorostearic acid,9,10-	5829-48-1	C5829481
	ethylenediaminetetraacetic acid	60-00-4	C60004
	formic acid	64-18-6	C64186
	hexanoic acid	142-62-1	C142621
	humic acid	1415-93-6	C1415936
	linoleic acid	60-33-3	C60333
	linolenic acid	463-40-1	C463401
	maleic acid	110-16-7	C110167
	oleic acid	112-80-1	C112801
	oxalic acid	144-62-7	C144627
	phosgene	75-44-5	C75445
	propanoic acid	79-09-4	C79094
Organometal	diethyl arsine	692-42-2	C692422
	iron-dextran	9004-66-4	C9004664
	nickel carbonyl	13463-39-3	C1346339
	selenourea	630-10-4	C630104
	tetraethyllead	78-00-2	C78002
Organophosphate	phosphorodithioic acid, o,o-diethyl-s-methyl	3288-58-2	C3288582
	tris(2,3-dibromopropyl)phosphate	126-72-7	C126727
Organophosphorus	diisopropyl fluorophosphate	55-91-4	C55914
	diisopropyl methylphosphonate	1445-75-6	C1445756
	hexaethyl tetraphosphate	757-58-4	C757584
Organosalt	choline chloride	67-48-1	C67481
Organosulfate	dimethyl sulfate	77-78-1	M77781
Organosulfur	mustard gas	505-60-2	C505602
	perchloromethyl mercaptan	594-42-3	C594423

PAH	acenaphthene	83-32-9	B83329
	acenaphthylene	208-96-8	B208968
	anthracene	120-12-7	B120127
	benzo(a)anthracene	56-55-3	B56553
	benzo(a)pyrene	50-32-8	B50328
	benzo(b)fluoranthene	205-99-2	B205992
	benzo(e)pyrene	192-97-2	S192972
	benzo(g,h,i)perylene	191-24-2	B191242
	benzo(j)fluoranthene	205-82-3	C205823
	benzo(k)fluoranthene	207-08-9	B207089
	chloronaphthalene,1-	90-13-1	C90131
	chloronaphthalene,2-	91-58-7	B91587
	chrysene	218-01-9	B218019
	dibenz(a,h)anthracene	53-70-3	B53703
	dibenzo(a,e)pyrene	192-65-4	C192654
	dibenzo(a,h)pyrene	189-64-0	C189640
	dibenzo(a,i)pyrene	189-55-9	C189559
	dimethylbenz(a)anthracene,7,12-	57-97-6	S57976
	fluoranthene	206-44-0	B206440
	fluorene	86-73-7	B86737
	indeno(1,2,3-cd)pyrene	193-39-5	B193395
	methylcholanthrene,3-	56-49-5	M56495
	methylnaphthalene,1-	90-12-0	C90120
	methylnaphthalene,2-	91-57-6	B91576
	naphthalene	91-20-3	B91203
	perylene	198-55-0	C198550
	phenanthrene	85-01-8	B85018
	polycyclic aromatic hydrocarbon-heavy		HPAH
	polycyclic aromatic hydrocarbon-light		LPAH
	polycyclic aromatic hydrocarbon-total		TPAH
	pyrene	129-00-0	B129000
	triphenylene	217-59-4	C217594
PCB	2,2',4,4',5,5'-Hexachlorobiphenyl	35065-27-1	P3506527
	Aroclor 1260 (PCB'S)	11096-82-8	P1109682
	aroclor-1016	12674-11-2	P1267411
	aroclor-1221	11104-28-2	P1110428
	aroclor-1232	11141-16-5	P1114116
	aroclor-1242	53469-21-9	P5346921
	aroclor-1248	12672-29-6	P1267229
	aroclor-1254	11097-69-1	P1109769
	aroclor-1260	11096-82-5	P1109682
	chlorobiphenyl,2-	2051-60-7	C2051607
	polychlorinated biphenyls	1336-36-3	P1336363
Pesticide	acephate	30560-19-1	C3056019
	alachlor	15972-60-8	C1597260
	aldicarb	116-06-3	C116063
	aldicarb sulfone	1646-88-4	C1646884
	aldicarb sulfoxide	1646-87-3	C1646873
	aldrin	309-00-2	P309002
	allethrin	584-79-2	C584792
	aluminum phosphide	20859-73-8	C2085973
	amaze	25311-71-1	C2531171
	ametryn	834-12-8	C834128
	aminocarb	2032-59-9	C2032599
	amitraz	33089-61-1	C3308961
	amitrole	61-82-5	C61825
	amobam	3566-10-7	C3566107
	anilazine	101-05-3	C101053
	Aramite	140-57-8	S140578
	aspon	3244-90-4	C3244904
	atrazine	1912-24-9	M1912249
	bendiocarb	22781-23-3	C2278123
	benfluralin	1861-40-1	C1861401

benomyl	17804-35-2	C1780435
bensulide	741-58-2	C741582
benzethonium chloride	121-54-0	C121540
benzyl benzoate	120-51-4	C120514
bifenox	42576-02-3	C4257602
bolstar	35400-43-2	C3540043
borax	1303-96-4	C1303964
bromacil	314-40-9	C314409
busan 40	51026-28-9	C5102628
busan 77	315-74-0	C315740
busan 85	128-03-0	C128030
busan 90	2491-38-5	C2491385
butylate	2008-41-5	C2008415
cacodylic acid	75-60-5	C75605
calcium methanearsonate	6423-72-9	C6423729
captafol	2425-06-1	C2425061
captan	133-06-2	C133062
carbaryl	63-25-2	P63252
carbazole	86-74-8	M86748
carbendazim	10605-21-7	C1060521
carbofuran	1563-66-2	C1563662
carbon disulfide	75-15-0	V75150
carbosulfan	55285-14-8	C5528514
chlordane	57-74-9	P57749
chlordane,alpha-	5103-71-9	P5103719
chlordane,gamma-	5103-74-2	P5103742
chlordene	3734-48-3	C3734483
chlorfenvinfos	470-90-6	C470906
Chloro-2-methylphenoxy)-acetic acid,(4-	94-74-6	P94746
chloro-2-methylphenoxy)-propanoic acid,2-(4-	93-65-2	P93652
Chlorobenzilate	510-15-6	P510156
chloroneb	2675-77-6	C2675776
chlorophacinone	3691-35-8	C3691358
chlorophenoxyacetic acid,o-	614-61-9	C614619
chlorophenoxyacetic acid,p-	122-88-3	C122883
chloropicrim	76-06-2	C76062
chloropropham	101-21-3	C101213
chlorothalonil	1897-45-6	C1897456
chloroxuron	1982-47-4	C1982474
chlorpyrifos	2921-88-2	M2921882
cinerin i	25402-06-6	C2540206
cinerin ii	121-20-0	C121200
cloprop	53404-22-1	C5340422
coumafuryl	117-52-2	C117522
coumaphos	56-72-4	C56724
crotonic acid	7786-34-7	M7786347
crotoxyphos	7700-17-6	C7700176
cyanazine	21725-46-2	C2172546
cycloate	1134-23-2	C1134232
cycloheximide	66-81-9	C66819
cycloprate	54460-46-7	C5446046
dalapon	75-99-0	C75990
dazomet	533-74-4	C533744
db,2,4-	94-82-6	C94826
DBCP (1,2-Dibromo-3-chloropropane)	96-12-8	V96128
DDD,4,4'-	72-54-8	P72548
DDE,4,4'-	72-55-9	P72559
DDT,4,4'-	50-29-3	P50293
deet	134-62-3	C134623
def	78-48-8	M78488
dementon	8065-48-3	P8065483
demeton-o	298-03-3	C298033
demeton-s	126-75-0	C126750
desmedipham	13684-56-5	C1368456
Diallate	2303-16-4	P2303164

diazinon	333-41-5	P333415
dibromoethane,1,2-	106-93-4	M106934
dicamba	1918-00-9	C1918009
dichlone	117-80-6	C117806
dichloran	99-30-9	C99309
dichlorobenzonitrile,2,6-	1194-65-6	C1194656
dichlorophene	97-23-4	C97234
dichlorophenoxyacetic acid,2,4-	94-75-7	P94757
dichloroprop	120-36-5	C120365
dichloropropene,cis-1,3-	10061-01-5	V1006101
dichloropropene,trans-1,3-	10061-02-6	V1006102
dichloropropionic acid,2,2-, sodium salt	127-20-8	C127208
dichlorvos	62-73-7	C62737
dicrotophos	141-66-2	C141662
dieldrin	60-57-1	P60571
dienochlor	2227-17-0	C2227170
diethylphosphoric acid,o,o-, o-p-nitrophenyl	311-45-5	C311455
diethylpropionamide,2-(alpha-naphthoxy)-n,n-	15299-99-7	C1529999
diflubenzuron	35367-38-5	C3536738
dimethoate	60-51-5	S60515
dimethyl tetrachloroterephthalate	1861-32-1	C1861321
dinocap	39300-45-3	C3930045
dioxathion	78-34-2	C78342
diphacinone	82-66-6	C82666
diphenamid	957-51-7	C957517
diquat (as ion)	2764-72-9	C2764729
diquat dibromide	85-00-7	C85007
diquat dibromide, monohydrate	6385-62-2	C6385622
disodium ethylenebis(dithiocarbamate)	142-59-6	C142596
Disulfoton	298-04-4	S298044
diuron	330-54-1	C330541
dodine	2439-10-3	C2439103
dsma	144-21-8	C144218
endosulfan	115-29-7	P115297
endosulfan I	959-98-8	P959988
endosulfan II	33213-65-9	P3321365
endosulfan sulfate	1031-07-8	P1031078
endothal-sodium	129-67-9	C129679
endothall	145-73-3	C145733
endrin	72-20-8	P72208
endrin aldehyde	7421-43-4	P7421434
endrin aldehyde	7421-93-4	C7421934
endrin ketone	53494-70-5	P5349470
epn	2104-64-5	C2104645
eptc	759-94-4	C759944
ethalfluralin	55283-68-6	C5528368
ethion	563-12-2	M563122
ethoxyquin	91-53-2	C91532
Ethyl parathion	56-38-2	S56382
etridiazole	2593-15-9	C2593159
Famphur	52-85-7	S52857
fenamiphos	22224-92-6	C2222492
fenarimol	60168-88-9	C6016888
fenbutatin oxide	13356-08-6	C1335608
fenitrothion	122-14-5	C122145
fensulfothion	115-90-2	C115902
fenthion	55-38-9	M55389
fenvalerate	51630-58-1	C5163058
ferbam	14484-64-1	C1448464
fluometuron	2164-17-2	C2164172
fluoroacetamide,2-	640-19-7	C640197
fluoroacetic acid, sodium salt	62-74-8	C62748
folpet	133-07-3	C133073
fonofos	944-22-9	C944229
giv-gard	7166-19-0	C7166190

glyphosate	1071-83-6	C1071836
guthion	86-50-0	P86500
hae	34375-28-5	C3437528
heptachlor	76-44-8	P76448
heptachlor epoxide	1024-57-3	P1024573
hexachlorocyclohexane,alpha-	319-84-6	P319846
hexachlorocyclohexane,beta-	319-85-7	P319857
hexachlorocyclohexane,delta-	319-86-8	P319868
hexachlorocyclohexane,gamma-	58-89-9	P58899
hexazinone	51235-04-2	C5123504
hptms	29803-57-4	C2980357
hyamine 2389	1399-80-0	C1399800
hyamine 3500	8001-54-5	C8001545
Isodrin	465-73-6	P465736
jasmolin i	4466-14-2	C4466142
jasmolin ii	1172-63-0	C1172630
karbutilate	4849-32-5	C4849325
kelthane	115-32-2	P115322
kepone	143-50-0	P143500
kn methyl	137-41-7	C137417
landrin 1	2686-99-9	C2686999
landrin 2	2655-15-4	C2655154
lethane 384	112-56-1	C112561
linuron	330-55-2	C330552
malathion	121-75-5	P121755
maleic hydrazide	123-33-1	C123331
mancozeb	8018-01-7	C8018017
maneb	12427-38-2	C1242738
mcpb	94-81-5	C94815
merphos	150-50-5	C150505
metasol j26	53404-62-9	C5340462
methamidophos	10265-92-6	C1026592
methidathion	950-37-8	C950378
methiocarb	2032-65-7	C2032657
methomyl	16752-77-5	P1675277
methoprene	40596-69-8	C4059669
methoxychlor	72-43-5	P72435
methyl parathion	298-00-0	S298000
metiram	9006-42-2	C9006422
metolachlor	51218-45-2	C5121845
metribuzin	21087-64-9	C2108764
mexacarbate	315-18-4	C315184
mgk 264	113-48-4	C113484
mgk 326	136-45-8	C136458
mirex	2385-85-5	P2385855
molinate	2212-67-1	C2212671
monuron	150-68-5	C150685
monuron tca	140-41-0	C140410
msma	2163-80-6	C2163806
nabonate	138-93-2	C138932
naled	300-76-5	C300765
nemazine	92-84-2	C92842
norea	2163-79-3	C2163793
octamethylpyrophosphoramide	152-16-9	C152169
octhilinone	26530-20-1	C2653020
octylammonium methanearsonate	6379-37-9	C6379379
oratren	87-08-1	C87081
oryzalin	19044-88-3	C1904488
oxydemeton methyl	301-12-2	C301122
oxyflurofen	42874-03-3	C4287403
pebulate	1114-71-2	C1114712
pendimethalin	40487-42-1	C4048742
Pentachloronitrobenzene	82-68-8	S82688
pentachlorophenol	87-86-5	A87865
permethrin	52645-53-1	C5264553

perthane	72-56-0	C72560
phenmedipham	13684-63-4	C1368463
phenylmercury acetate	62-38-4	C62384
phenylphenol	90-43-7	C90437
phorate (thimet)	298-02-2	S298022
phosalone	2310-17-0	C2310170
phosmet	732-11-6	C732116
phosphamidon	13171-21-6	C1317121
phosphine	7803-51-2	C7803512
phosphorodithioic acid, o-ethyl-s,s-diphenyl	17109-49-8	C1710949
phosphorodithioic acid, o-ethyl-s,s-dipropyl	13194-48-4	C1319448
picloram	1918-02-1	C1918021
pindone	83-26-1	C83261
piperonyl butoxide	51-03-6	C51036
profenofos	41198-08-7	C4119808
prometon	1610-18-0	C1610180
prometryn	7287-19-6	C7287196
Pronamide	23950-58-5	S2395058
propachlor	1918-16-7	C1918167
propamocarb hydrochloride	25606-41-1	C2560641
propanil	709-98-8	C709988
propargite	2312-35-8	C2312358
propazine	139-40-2	C139402
propham	122-42-9	C122429
propoxur	114-26-1	C114261
pyrethrin i	121-21-1	C121211
pyrethrin ii	121-29-9	C121299
pyrethrum	8003-34-7	C8003347
quinolinol sulfate,8-	134-31-6	C134316
quinomethionate	2439-01-2	C2439012
resmethrin	10453-86-8	C1045386
ronnel	299-84-3	C299843
rotenone	83-79-4	C83794
sec-Butyl-4,6-dinitrophenol,2	88-85-7	S88857
siduron	1982-49-6	C1982496
simazine	122-34-9	P122349
sodium cyanide	143-33-9	C143339
sodium dimethyldithiocarbamate	128-04-1	C128041
stirofos	22248-79-9	C2224879
strychnine	57-24-9	C57249
sulfallate	95-06-7	C95067
sulfotepp	3689-24-5	S3689245
sulfoxide	120-62-7	C120627
tcmtb	21564-17-0	C2156417
tebuthiuron	34014-18-1	C3401418
temephos	3383-96-8	C3383968
terbacil	5902-51-2	C5902512
terbufos	13071-79-9	C1307179
terbuthylazine	5915-41-3	C5915413
terbutryn	886-50-0	C886500
tetrachlorophenol,2,3,4,5-	4901-51-3	S4901513
tetrachlorophenol,2,3,5,6-	935-95-5	C935955
tetrachlorophenols	25167-83-3	C2516783
tetrachlorothiophene	6012-97-1	C6012971
tetraethyl pyrophosphate	107-49-3	C107493
tetramethrin	7696-12-0	C7696120
thiabendazole	148-79-8	C148798
thiofanox	39196-18-4	C3919618
Thionazin	297-97-2	S297972
thiophanate ethyl	23564-06-9	C2356406
thiophanate methyl	23564-05-8	C2356405
thiram	137-26-8	C137268
toxaphene	8001-35-2	P8001352
triadimefon	43121-43-3	C4312143
trichlorfon	52-68-6	P52686

	trichlorophenoxy)propionic acid,2-(2,4,5-	93-72-1	P93721
	trichlorophenoxyacetic acid,2,4,5-	93-76-5	P93765
	trifluralin	1582-09-8	C1582098
	vancide 51z	8003-42-7	C8003427
	vancide th	7779-27-3	C7779273
	vapam	137-42-8	C137428
	vernolate	1929-77-7	C1929777
	vydate	23135-22-0	C2313522
	warfarin	81-81-2	C81812
	zinc phosphide	1314-84-7	C1314847
	zineb	12122-67-7	C1212267
	ziram	137-30-4	C137304
Petroleum	Diesel		DIESEL
	Free petroleum product		PRODUCT
	Gasoline	8006-61-9	GASOLINE
	Kerosene	8008-20-6	KEROSENE
Phenolic	aminophenol,2-	95-55-6	C95556
	aminophenol,3-	591-27-5	C591275
	aminophenol,4-	123-30-8	C123308
	bromophenol,4-	106-41-2	C106412
	butyl-m-cresol,6-tert-	88-60-8	C88608
	butyl-p-cresol,2-tert-	2409-55-4	C2409554
	butylphenol,2-	3180-09-4	C3180094
	butylphenol,4-	1638-22-8	C1638228
	catechol	120-80-9	C120809
	chloro-3-methylphenol,4-	59-50-7	A59507
	chlorophenol,2-	95-57-8	A95578
	chlorophenol,4-	106-48-9	C106489
	creosote	8001-58-9	C8001589
	cresols	1319-77-3	M1319773
	cyclohexyl-4,6-dinitrophenol,2-	131-89-5	C131895
	di-tert-butyl-p-cresol,2,6-	128-37-0	C128370
	di-tert-butyl-p-cresols	25377-21-3	C2537721
	dichlorocatechol,4,5-	3428-24-8	C3428248
	dichloroguaiacol,4,5-	2460-49-3	C2460493
	dichlorophenol,2,4-	120-83-2	A120832
	dichlorophenol,2,6-	87-65-0	M87650
	dimethylethyl)phenol,3-(1,1-	585-34-2	C585342
	dimethylphenol,2,3-	526-75-0	C526750
	dimethylphenol,2,4-	105-67-9	A105679
	dimethylphenol,2,5-	95-87-4	C95874
	dimethylphenol,2,6-	576-26-1	C576261
	dimethylphenol,3,4-	95-65-8	C95658
	dinitro-2-methyphenol,4,6-	534-52-1	A534521
	dinitrophenol,2,4-	51-28-5	A51285
	ethyl-5-methylphenol,3-	698-71-5	C698715
	ethylphenol,2-	90-00-6	C90006
	ethylphenol,3-	620-17-7	C620177
	ethylphenol,4-	123-07-9	C123079
	hexachlorophene	70-30-4	S70304
	hydroquinone	123-31-9	C123319
	isopropyl phenol,4-	99-89-8	C99898
	m cresol	108-39-4	S108394
	methoxyphenol,2-	90-05-1	S90051
	methoxyphenol,4-	150-76-5	C150765
	methylphenol,2-	95-48-7	A95487
	methylphenol,4-	106-44-5	A106445
	mono-tert-butyl-m-cresol	1333-13-7	C1333137
	mono-tert-butyl-p-cresol	25567-40-2	C2556740
	naphthol,alpha-	90-15-3	C90153
	naphthol,beta-	135-19-3	C135193
	nitrophenol,4-	100-02-7	A100027
	nonylphenol	25154-52-3	C2515452

	nonylphenol,4-	104-40-5	C104405
	o-nitrophenol	88-75-5	A88755
	pentylphenol,4-	14938-35-3	C1493835
	phenol	18-95-2	A18952
	propylphenol,4-	645-56-7	C645567
	resorcinol	108-46-3	C108463
	tetrachlorocatechol,3,4,5,6-	1198-55-6	C1198556
	tetrachloroguaiacol,3,4,5,6-	2539-17-5	C2539175
	tetrachlorophenol,2,3,4,6-	58-90-2	S58902
	tetramethylphenol,2,3,5,6-	527-35-5	C527355
	thiophenol	108-98-5	C108985
	Total phenols		TPHENOL
	trichlorocatechol,3,4,5-	56961-20-7	C5696120
	trichloroguaiacol,3,4,5-	57057-83-7	C5705783
	trichloroguaiacol,4,5,6-	2668-24-8	S2668248
	trichlorophenol,2,4,5-	95-95-4	A95954
	trichlorophenol,2,4,6-	88-06-2	A88062
	trimethylphenol,2,3,5-	697-82-5	C697825
Phthalate	bis(2-ethylhexyl)phthalate	117-81-7	B117817
	butylbenzylphthalate	85-68-7	B85687
	di-n-butylphthalate	84-74-2	B84742
	di-n-octyl phthalate	117-84-0	B117840
	diethylphthalate	84-66-2	B84662
	diisobutyl phthalate	84-69-5	C84695
	dimethyl phthalate	131-11-3	B131113
Physical	Clay [<0.005 mm] (%)		CLAY
	Color of Solid		COLOUR
	combustable gas (% by volume)		CGASPCT
	combustable gas (ppm)		CGASPPM
	Composition of Solid		COMPOSIT
	Conductivity (μmho/cm^2),Specific		EC
	Delta temperature-2m to 10m (F)		DTF210
	Fines [<0.05 mm] (%)		FINES
	Flash Point (°F)		FLASH
	Gravity, specific		SGRAVITY
	Hor. wind direction-10m (deg)		HWD10
	Hor. wind direction-2m (deg)		HWD2
	Hor. wind direction-30m (deg)		HWD30
	Hor. wind speed-10m (mph)		HWS10
	Hor. wind speed-2m (mph)		HWS2
	Hor. wind speed-30m (mph)		HWS30
	Hydrometer size 0.001 mm (% pass)		H001
	Hydrometer Size 0.003 mm (% pass)		H003
	Hydrometer size 0.005 mm (% pass)		H005
	Hydrometer size 0.007 mm (% pass)		H007
	Hydrometer size 0.009 mm (% pass)		H009
	Hydrometer size 0.013 mm (% pass)		H013
	Hydrometer size 0.019 mm (% pass)		H019
	Hydrometer size 0.021 mm (% pass)		H021
	Hydrometer size 0.023 mm (% pass)		H023
	Hydrometer size 0.033 mm (% pass)		H033
	Hydrometer size 0.036 mm (% pass)		H036
	Hydrometer size 0.050 mm (% pass)		H050
	Hydrometer size 0.074 mm (% pass)		H074
	Moisture (%)		MOISTURE
	Odor of Solid		ODOR
	particulates <10μm		PM10
	Peak hor. wind speed-10m (mph)		PHWS10
	Precipitation (in)		PRECIP
	Pressure (in),Barometric		BAROMETE
	Product quantity (gal)		PRODUCTQ
	Purge volume (gal)		PVOLUME
	Reaction potential (mv)		EH

	Relative Humidity (%)		HUMIDITY
	Rinseate water particles (% pass)		RINSEATE
	Rocks [>Sieve No. 4, 4.76 mm] (%)		ROCKS
	Sample wet weight		WETWEIGH
	Sand [>0.05 mm] (%)		SAND
	Sieve No. 10 [2.00 mm] (% pass)		S2000
	Sieve No. 100 [0.15 mm] (% pass)		S150
	Sieve No. 120 [0.125 mm] (% pass)		S125
	Sieve No. 140 [0.105 mm] (% pass)		S105
	Sieve No. 16 [1.19 mm] (% pass)		S1190
	Sieve No. 170 [0.090 mm] (% pass)		S090
	Sieve No. 18 [1.00 mm] (% pass)		S1000
	Sieve No. 20 [0.84 mm] (% pass)		S840
	Sieve No. 200 [0.074 mm] (% pass)		S074
	Sieve No. 230 [0.063 mm] (% pass)		S063
	Sieve No. 30 [0.59 mm] (% pass)		S590
	Sieve No. 35 [0.50 mm] (% pass)		S500
	Sieve No. 4 [4.75 mm] (% pass)		S4750
	Sieve No. 40 [0.42 mm] (% pass)		S420
	Sieve No. 50 [0.297 mm] (% pass)		S297
	Sieve No. 60 [0.25 mm] (% pass)		S250
	Sieve No. 8 [2.38 mm] (% pass)		S2380
	Sieve No. 80 [0.177 mm] (% pass)		S177
	Sieve size 1" [25.4 mm] (% pass)		S25400
	Sieve size 1/2" [12.7 mm] (% pass)		S12700
	Sieve size 1/4" [6.35 mm] (% pass)		S6350
	Sieve size 3/4" [19.1 mm] (% pass)		S19100
	Sieve size 3/8" [9.52 mm] (% pass)		S9520
	Sigma hor. wind dir. -10m (deg)		SHWD10
	Sigma hor. wind dir. -2m (deg)		SHWD2
	Sigma hor. wind dir. -30m (deg)		SHWD30
	Sigma vert. wind speed-10m (mph)		SVWS10
	Silt [0.05 - 0.005 mm] (%)		SILT
	sludge (ml/L)		SLUDGE
	solar radiation (cal/cm^2/min)		SOLRAD
	Solids (% dry wt),Total		TSOLIDS
	solids (ppm),Total non-vol. sus.		TNVSS
	solids (ppm),Total non-volatile		TNVS
	solids (ppm),Total volatile		TVS
	solids, total		TS
	solids, Total dissolved		TDS
	solids, total suspended		TSS
	Stability Class-Lateral turbulance		STABLT
	Stability Class-Solar Radiation		STABSR
	Stability Class-Vertical turbulence		STABVT
	Temperature (°C)		TEMPC
	temperature (°C), Air		ATEMPC
	temperature (°C), Water		WTEMPC
	temperature-10m (F),Air		TEMPF10
	total sus. particulates		TSP
	Turbidity (NTU)		TURBIDIT
	Vertical wind speed-10m (mph)		VWS10
	Volatile Solids (%),Total		TVSOLIDS
	Volume purged (gal)		PURGEVOL
	Water flow (cfs)		FLOWCFS
	water pressure (± atmospheres)		WPRESS
	Wind run (km)		WINDRUN
Polymer	polyvinyl alcohol	9002-89-5	C9002895
Quaternary	benzethonium chloride, methyl-	25155-18-4	C2515518
Radioactive	actinium		ACTINIUM
	americium	7440-35-9	AMERICIU
	astatin		ASTATINE

	berkelium		BERKELIU
	californium		CALIFORN
	carbon 14		C14
	cesium 137	7440-46-2	CS137
	cobalt 60	7440-48-4	CO60
	curium		CURIUM
	einsteinium		EINSTENI
	iodine		I129
	lawrencium		LAWRENCI
	lead 210		PB210
	mendelevium		MENDELEV
	neptunium		NEPTUNIU
	nobelium		NOBELIUM
	plutonium	7440-07-5	PLUTONIU
	polonium		POLONIUM
	polonium 210		PO210
	potassium		K40
	promethium		PROMETHI
	protactinium		PROTACTI
	radiation,gross α		ALPHA
	radiation,gross β		BETA
	radium	7440-14-4	RADIUM
	radium 226		RA226
	radium 228		RA228
	radon	10043-92-2	C1004392
	strontium 90		SR90
	technetium		TECHNETI
	thorium	7440-29-1	THORIUM
	thorium 230		TH230
	thorium 232		TH232
	uranium	7440-61-1	URANIUM
	uranium 234		U234
	uranium 238		U238
Spatial	Depth to product (ft)		PRODUCTD
	Lower sample depth		LOWDEPTH
	mixing height (m)		MIXHEIGH
	Petroleum product thickness (ft)		PRODUCTT
	Sample volume		VOLUME
	Upper sample depth		UPDEPTH
	Water elevation (ft)		WELEV
	Water level (ft from ref. point)		WLEVEL
Volatile	1,2-dimethyl-cyclohexane	6876-23-9	V6876239
	bicyclo[2.2.1]heptane-2-one	21368-68-3	V2136868
	cyclopentane	142-29-0	V142290
	dichlorobutane,1,4-	110-56-5	V110565
	dimethyl-undecane,4,7-	17301-32-5	V1730132
	ethyl-2-methyl-octane,6-	62016-19-7	V6201619
	ethyl-4-methyl-cyclohexane,1-	6236-88-0	V6236880
	hexene,trans-2-	4050-45-7	V4050457
	methyl-2-pentanol,4-	108-11-2	V108112
	methyl-3-(1-M) cyclohexane,1-	16580-24-8	V1658024
	pentene,1-	109-67-1	V109671
	pinene,alpha-	80-56-8	V80568
	silano, trimethyl	1066-40-6	V1066406
	trans-1,4-Dichloro-2-butene	110-57-6	V110576
	trimethyl-cyclohexane,1,2,4-	7667-60-9	V7667609
	trimethyl-heptane,2,3,4-	52896-95-4	V5289695
	trimethyl-octane,2,4,6-	62016-37-9	V6201637

Table V - CAS Number Based Field Names Ordered by CAS Number

NOTE: In order to improve table lookup capabilities, the CAS numbers are ordered without regard to placement of hyphens.

CAS#	CFDMS FIELD	NAME
100-01-6	B100016	nitroaniline,4-
100-02-7	A100027	nitrophenol,4-
100-41-4	V100414	ethylbenzene
100-42-5	V100425	styrene
10043-92-2	C1004392	radon
100-44-7	C100447	benzyl chloride
100-48-1	C100481	cyanopyridine,4-
100-51-6	B100516	benzyl alcohol
100-52-7	C100527	benzaldehyde
100-54-9	C100549	cyanopyridine,3-
10061-01-5	V1006101	dichloropropene,cis-1,3-
10061-02-6	V1006102	dichloropropene,trans-1,3-
100-61-8	C100618	N-methylaniline
100-70-9	C100709	cyanopyridine,2-
100-75-4	S100754	N-nitrosopiperidine
10102-45-1	C1010245	thallium (i) nitrate
10102-53-1	C1010253	arsenic acid, meta-
101-05-3	C101053	anilazine
101-14-4	C101144	methylenebis(2-chloroaniline),4,4'-
101-21-3	C101213	chloropropham
101-55-3	B101553	bromophenyl-phenylether,4-
1024-57-3	P1024573	heptachlor epoxide
10265-92-6	C1026592	methamidophos
102-71-6	C102716	triethanolamine
1031-07-8	P1031078	endosulfan sulfate
103-11-7	C103117	ethylhexyl acrylate,2-
103-23-1	M103231	diethyl hexyl adipate
103-65-1	C103651	N-propylbenzene
103-85-5	C103855	phenylthiourea
104-06-3	M104063	Acetanilide, 4'-formyl-, 4'-thiosemicarbazone
104-15-4	C104154	toluenesulfonate,p-
10415-75-5	C1041575	mercurous nitrate
104-40-5	C104405	nonylphenol,4-
104-46-1	C104461	anethole
104-51-8	C104518	N-butylbenzene
10453-86-8	C1045386	resmethrin
104-76-7	C104767	ethylhexanol,2-
104-90-5	C104905	methyl ethylpyridine
104-94-9	C104949	anisidine,4-
105-67-9	A105679	dimethylphenol,2,4-
10595-95-6	S1059595	N-nitrosomethylethylamine
10605-21-7	C1060521	carbendazim
106-41-2	C106412	bromophenol,4-
106-42-3	V106423	xylene,p-
106-43-4	C106434	chlorotoluene,p-
106-44-5	A106445	methylphenol,4-
1064-48-8	C1064488	acid black 1 (c.i.no.20470)
106-46-7	B106467	dichlorobenzene,1,4-
106-47-8	B106478	chloroaniline,4-
106-48-9	C106489	chlorophenol,4-
106-49-0	C106490	toluidine,p-
106-50-3	S106503	Phenylenediamine,p-
106-51-4	S106514	benzoquinone
1066-40-6	V1066406	silano, trimethyl
106-70-7	M106707	hexadecanoic acid, methyl ester

106-89-8	M106898	epichlorohydrin
106-93-4	M106934	dibromoethane,1,2-
106-97-8	M106978	butane
106-99-0	M106990	butadiene,1,3-
107-02-8	V107028	acrolein
107-05-1	V107051	allyl chloride
107-06-2	V107062	dichloroethane,1,2-
107-10-8	C107108	N-propylamine
107-12-0	V107120	Ethyl cyanide
107-13-1	V107131	acrylonitrile
107-15-3	C107153	ethylenediamine
1071-83-6	C1071836	glyphosate
107-18-6	C107186	allyl alcohol
107-19-7	C107197	propargyl alcohol
107-20-0	M107200	chloroacetaldehyde
107-21-1	M107211	ethylene glycol
107-30-2	M107302	chloromethyl methyl ether
107-49-3	C107493	tetraethyl pyrophosphate
107-83-5	M107835	methylpentane,1-
107-92-6	C107926	butyric acid
108-05-4	V108054	vinyl acetate
108-10-1	V108101	methylisobutylketone
108-11-2	V108112	methyl-2-pentanol,4-
108-20-3	C108203	diisopropyl ether
108-21-4	C108214	isopropyl acetate
108-31-6	M108316	maleic anhydride
108-38-3	S108383	xylene,m-
108-39-4	S108394	m cresol
108-45-2	C108452	phenylenediamine,1,3-
108-46-3	C108463	resorcinol
108-60-1	B108601	bis(2-chloroisopropyl)ether
108-67-8	C108678	trimethylbenzene,1,3,5-
108-69-0	C108690	dimethylaniline,3,5-
108-70-3	V108703	trichlorobenzene
108-86-1	C108861	bromobenzene
108-87-2	V108872	methyl-cyclohexane
108-88-3	V108883	toluene
108-90-7	V108907	chlorobenzene
108-91-8	C108918	cyclohexylamine
108-94-1	M108941	cyclohexanone
108-98-5	C108985	thiophenol
109-06-8	S109068	Picoline,2-
109-60-4	C109604	propyl acetate
109-65-9	M109659	butyl bromide
109-66-0	C109660	N-pentane
109-67-1	V109671	pentene,1-
109-73-9	C109739	butylamine
109-74-0	C109740	butanenitrile
109-75-1	C109751	butenenitrile,3-
109-77-3	C109773	malononitrile
109-86-4	M109864	methyl-cellosolve
109-99-9	C109999	tetrahydrofuran
110-00-9	C110009	furan
110-16-7	C110167	maleic acid
110-19-0	C110190	isobutyl acetate
110-54-3	M110543	N-hexane
110-56-5	V110565	dichlorobutane,1,4-
110-57-6	V110576	trans-1,4-Dichloro-2-butene
110-61-2	C110612	butanedinitrile
110-75-8	V110758	chloroethylvinylether,2-
110-80-5	M110805	cellosolve
110-82-7	M110827	cyclohexane
110-86-1	S110861	pyridine
110-91-8	C110918	morpholine
11096-82-5	P1109682	aroclor-1260

11096-82-8	P1109682	Aroclor 1260 (PCB'S)
11097-69-1	P1109769	aroclor-1254
11104-28-2	P1110428	aroclor-1221
111-27-3	C111273	N-hexyl alcohol
11141-16-5	P1114116	aroclor-1232
111-44-4	B111444	bis(2-chloroethyl)ether
111-46-6	C111466	diethylene glycol
1114-71-2	C1114712	pebulate
111-54-6	M111546	Ethylenebisdithiocarbamic acid
1116-54-7	C1116547	N-nitrosodiethanolamine
111-65-9	C111659	octane
111-69-3	C111693	dicyanobutane,1,4-
111-71-7	C111717	heptaldehyde
111-76-2	M111762	butyl cellosolve
111-84-2	V111842	nonane
111-91-1	B111911	bis(2-chloroethoxy)methane
1120-71-4	C1120714	propane sultone,1,3-
112-56-1	C112561	lethane 384
112-80-1	C112801	oleic acid
112-95-8	C112958	N-eicosane
1134-23-2	C1134232	cycloate
113-48-4	C113484	mgk 264
114-26-1	C114261	propoxur
115-02-6	C115026	azaserine
115-27-5	C115275	chlorendic anhydride
115-29-7	P115297	endosulfan
115-32-2	P115322	kelthane
115-86-6	M115866	triphenyl phosphate
115-90-2	C115902	fensulfothion
116-06-3	C116063	aldicarb
1172-63-0	C1172630	jasmolin ii
117-52-2	C117522	coumafuryl
117-80-6	C117806	dichlone
117-81-7	B117817	bis(2-ethylhexyl)phthalate
117-84-0	B117840	di-n-octyl phthalate
118-74-1	B118741	hexachlorobenzene
118-79-6	M118796	tribromophenol,2,4,6-
118-91-2	C118912	chlorobenzoic acid,2-
118-96-7	C118967	trinitrotoluene,2,4,6-
1194-65-6	C1194656	dichlorobenzonitrile,2,6-
119-64-2	C119642	tetrahydronaphthalene,1,2,3,4-
1198-55-6	C1198556	tetrachlorocatechol,3,4,5,6-
119-90-4	C119904	dimethoxybenzidine,3,3'-
119-93-7	S119937	Dimethylbenzidine,3,3'-
120-12-7	B120127	anthracene
120-32-1	S120321	benzyl-4-chlorophenol,2-
120-36-5	C120365	dichloroprop
12039-52-0	C1203952	thallium selenite
120-51-4	C120514	benzyl benzoate
120-58-1	S120581	Isosafrole
120-62-7	C120627	sulfoxide
120-80-9	C120809	catechol
120-82-1	B120821	trichlorobenzene,1,2,4-
120-83-2	A120832	dichlorophenol,2,4-
121-14-2	B121142	dinitrotoluene,2,4-
121-20-0	C121200	cinerin ii
121-21-1	C121211	pyrethrin i
12122-67-7	C1212267	zineb
121-29-9	C121299	pyrethrin ii
121-54-0	C121540	benzethonium chloride
121-69-7	S121697	dimethylaniline, N,N-
121-75-5	P121755	malathion
121-82-4	C121824	cyclotrimethylenetrinitramine
122-09-8	S122098	Dimethylphenethylamine,a,a-
122-14-5	C122145	fenitrothion

122-34-9	P122349	simazine
12239-15-5	C1223915	acid yellow 49 (c.i.no.18640)
122-39-4	S122394	diphenylamine
122-40-3	C122403	N-dodecane
122-42-9	C122429	propham
122-66-7	B122667	diphenylhydrazine,1,2-
122-88-3	C122883	chlorophenoxyacetic acid,p-
123-07-9	C123079	ethylphenol,4-
123-08-0	C123080	hydroxybenzaldehyde,4-
123-30-8	C123308	aminophenol,4-
123-31-9	C123319	hydroquinone
123-33-1	C123331	maleic hydrazide
123-38-6	C123386	propionaldehyde
123-42-2	C123422	diacetone alcohol
123-54-6	C123546	pentanedione,2,4-
123-63-7	C123637	paraldehyde
123-72-8	M123728	butyraldehyde
123-86-4	M123864	butyl acetate
123-91-1	V123911	dioxane,1,4-
124-04-9	C124049	adipic acid
124-09-4	C124094	hexamethylenediamine
124-18-5	V124185	decane
12427-38-2	C1242738	maneb
124-48-1	V124481	dibromochloromethane
126-68-1	S126681	Triethylphosphorothioate,o,o,o-
12672-29-6	P1267229	aroclor-1248
126-72-7	C126727	tris(2,3-dibromopropyl)phosphate
126-73-8	C126738	tributyl phosphate
12674-11-2	P1267411	aroclor-1016
126-75-0	C126750	demeton-s
126-85-2	C126852	nitrogen mustard, n-oxide
126-98-7	V126987	Methacrylonitrile
126-99-8	V126998	chloroprene
12715-61-6	C1271561	acid yellow 151 (c.i.no.13960)
127-18-4	V127184	tetrachloroethylene,1,1,2,2-
127-20-8	C127208	dichloropropionic acid,2,2-, sodium salt
127-27-5	C127275	pimaric acid
128-03-0	C128030	busan 85
128-04-1	C128041	sodium dimethyldithiocarbamate
128-37-0	C128370	di-tert-butyl-p-cresol,2,6-
129-00-0	B129000	pyrene
129-67-9	C129679	endothal-sodium
1300-21-6	C1300216	dichloroethanes
1300-73-8	C1300738	dimethylanilines
130-15-4	S130154	Naphthoquinone,1,4-
1303-28-2	C1303282	arsenic pentoxide
1303-33-9	C1303339	arsenic trisulfide
1303-96-4	C1303964	borax
13071-79-9	C1307179	terbufos
1310-73-2	C1310732	sodium hydroxide
131-11-3	B131113	dimethyl phthalate
1314-32-5	C1314325	thallic oxide
1314-62-1	C1314621	vanadium pentoxide
1314-84-7	C1314847	zinc phosphide
1314-96-1	C1314961	strontium sulfide
13171-21-6	C1317121	phosphamidon
1317-36-8	M1317368	lead oxide
131-89-5	C131895	cyclohexyl-4,6-dinitrophenol,2-
13194-48-4	C1319448	phosphorodithioic acid, o-ethyl-s,s-dipropyl
1319-77-3	M1319773	cresols
13256-22-9	C1325622	N-nitrososarcosine
132-64-9	B132649	dibenzofuran
1327-53-3	C1327533	arsenic trioxide
1330-20-7	V1330207	xylenes,total
133-06-2	C133062	captan

133-07-3	C133073	folpet
1330-78-5	C1330785	tricresyl phosphate
1332-21-4	M1332214	asbestos
1333-13-7	C1333137	mono-tert-butyl-m-cresol
1335-32-6	C1335326	lead subacetate
13356-08-6	C1335608	fenbutatin oxide
1336-36-3	P1336363	polychlorinated biphenyls
1338-23-4	M1338234	2-Butanone peroxide
134-31-6	C134316	quinolinol sulfate,8-
134-32-7	S134327	Naphthylamine,1-
1344-28-1	C1344281	aluminum oxide
13453-15-1	C1345315	arsenic acid,pyro-
134-62-3	C134623	deet
13463-39-3	C1346339	nickel carbonyl
135-19-3	C135193	naphthol,beta-
135-98-8	M135988	butylbenzene isomers
136-45-8	C136458	mgk 326
13684-56-5	C1368456	desmedipham
13684-63-4	C1368463	phenmedipham
137-26-8	C137268	thiram
137-30-4	C137304	ziram
137-41-7	C137417	kn methyl
137-42-8	C137428	vapam
13765-19-0	C1376519	calcium chromate
138-93-2	C138932	nabonate
139-40-2	C139402	propazine
1399-80-0	C1399800	hyamine 2389
1402-68-2	M1402682	aflatoxin
140-41-0	C140410	monuron tca
140-57-8	S140578	Aramite
1406-50-4	C1406504	calamenene
140-88-5	M140885	Ethyl acrylate
1415-93-6	C1415936	humic acid
141-66-2	C141662	dicrotophos
141-78-6	M141786	ethyl acetate
142-28-9	M142289	cis-1,3-dichloropropane
142-29-0	V142290	cyclopentane
142-59-6	C142596	disodium ethylenebis(dithiocarbamate)
142-62-1	C142621	hexanoic acid
142-82-5	C142825	N-heptane
142-84-7	M142847	Dipropylamine
143-33-9	C143339	sodium cyanide
143-50-0	P143500	kepone
14380-61-1	C1438061	hypochlorite (as ion)
144-21-8	C144218	dsma
144-49-0	M144490	Fluoracetic acid
1445-75-6	C1445756	diisopropyl methylphosphonate
144-62-7	C144627	oxalic acid
14484-64-1	C1448464	ferbam
145-73-3	C145733	endothall
1464-53-5	C1464535	diepoxybutane,1,2:3,4-
1470-94-6	C1470946	indanol,5-
14866-68-3	C1486668	chlorate (as ion)
148-79-8	C148798	thiabendazole
148-82-3	C148823	melphalan
14901-08-7	C1490108	cycasin
14938-35-3	C1493835	pentylphenol,4-
14998-27-7	C1499827	chlorite (as ion)
150-50-5	C150505	merphos
150-68-5	C150685	monuron
150-76-5	C150765	methoxyphenol,4-
151-21-3	C151213	sodium dodecyl sulfate
151-50-8	C151508	potassium cyanide
151-56-4	C151564	aziridine
152-16-9	C152169	octamethylpyrophosphoramide

15299-99-7	C1529999	diethylpropionamide,2-(alpha-naphthoxy)-n,n-
156-10-5	C156105	nitrosodiphenylamine,4-
1563-66-2	C1563662	carbofuran
156-59-2	C156592	dichloroethylene,1,2-cis-
156-60-5	V156605	dichloroethene,trans-1,2-
1582-09-8	C1582098	trifluralin
15972-60-8	C1597260	alachlor
15980-15-1	C1598015	oxathiane,1,4-
1610-18-0	C1610180	prometon
1615-80-1	C1615801	n,n'-diethylhydrazine
1634-04-4	C1634044	methyl-tert-butyl ether
1638-22-8	C1638228	butylphenol,4-
1641-41-4	C1641414	indanol,4-
1646-87-3	C1646873	aldicarb sulfoxide
1646-88-4	C1646884	aldicarb sulfone
16543-55-8	C1654355	N-nitrosonornicotine
16580-24-8	V1658024	methyl-3-(1-M) cyclohexane,1-
1658-56-6	C1658566	acid red 88 (c.i.no.15620)
16752-77-5	P1675277	methomyl
17109-49-8	C1710949	phosphorodithioic acid, o-ethyl-s,s-diphenyl
17301-32-5	V1730132	dimethyl-undecane,4,7-
17375-41-6	C1737541	ferrous sulfate, monohydrate
1740-19-8	C1740198	dehydroabietic acid
1746-01-6	B1746016	dioxin,2,3,7,8-tetrachlorodibenzo-p-
1746-01-6	C1746016	tetrachlorodibenzo-p-dioxin,2,3,7,8-
17804-35-2	C1780435	benomyl
1820-81-1	C1820811	chlorouracil,5-
18268-69-4	C1826869	dichlorovanillin,5,6-
18268-76-3	C1826876	chlorovanillin,6-
18540-29-9	C1854029	chromium, hexavalent
1861-32-1	C1861321	dimethyl tetrachloroterephthalate
1861-40-1	C1861401	benfluralin
1886-81-3	C1886813	dodecylbenzenesulfonate
18883-66-4	C1888366	streptozotocin
1888-71-7	S1888717	Hexachloropropene
18-95-2	A18952	phenol
189-55-9	C189559	dibenzo(a,i)pyrene
189-64-0	C189640	dibenzo(a,h)pyrene
1897-45-6	C1897456	chlorothalonil
19044-88-3	C1904488	oryzalin
1912-24-9	M1912249	atrazine
191-24-2	B191242	benzo(g,h,i)perylene
1918-00-9	C1918009	dicamba
1918-02-1	C1918021	picloram
1918-16-7	C1918167	propachlor
1921-70-6	C1921706	pristane
192-65-4	C192654	dibenzo(a,e)pyrene
192-97-2	S192972	benzo(e)pyrene
1929-77-7	C1929777	vernolate
193-39-5	B193395	indeno(1,2,3-cd)pyrene
1934-21-0	C1934210	acid yellow 23 (c.i.no.19140)
1936-15-8	C1936158	acid orange 10 (c.i.no.16230)
19408-74-3	D1940874	hexachlorodibenzodioxin,1,2,3,7,8,9-
194-59-2	C194592	dibenzo(c,g)carbazole,7h-
19463-48-0	C1946348	chlorovanillin,5-
19700-21-1	C1970021	geosmin
1982-47-4	C1982474	chloroxuron
1982-49-6	C1982496	siduron
198-55-0	C198550	perylene
2008-41-5	C2008415	butylate
2032-59-9	C2032599	aminocarb
2032-65-7	C2032657	methiocarb
20427-59-2	C2042759	copper hydroxide
2051-60-7	C2051607	chlorobiphenyl,2-
2056-25-9	C2056259	undecamethylenediamine,n,n'-bis(2-chlorobenzy

205-82-3	C205823	benzo(j)fluoranthene
205-99-2	B205992	benzo(b)fluoranthene
206-44-0	B206440	fluoranthene
207-08-9	B207089	benzo(k)fluoranthene
20816-12-0	C2081612	osmium tetroxide
20830-81-3	C2083081	daunomycin
20859-73-8	C2085973	aluminum phosphide
208-96-8	B208968	acenaphthylene
20908-72-9	C2090872	ferrous sulfate, tetrahydrate
2104-64-5	C2104645	epn
21087-64-9	C2108764	metribuzin
21368-68-3	V2136868	bicyclo[2.2.1]heptane-2-one
21564-17-0	C2156417	tcmtb
2163-79-3	C2163793	norea
2163-80-6	C2163806	msma
2164-17-2	C2164172	fluometuron
21725-46-2	C2172546	cyanazine
217-59-4	C217594	triphenylene
218-01-9	B218019	chrysene
2212-67-1	C2212671	molinate
22224-92-6	C2222492	fenamiphos
22248-79-9	C2224879	stirofos
2227-17-0	C2227170	dienochlor
224-42-0	C224420	dibenz(a,j)acridine
225-51-4	C225514	benz(c)acridine
226-36-8	C226368	dibenz(a,h)acridine
22781-23-3	C2278123	bendiocarb
2303-16-4	P2303164	Diallate
2310-17-0	C2310170	phosalone
2312-35-8	C2312358	propargite
23135-22-0	C2313522	vydate
23564-05-8	C2356405	thiophanate methyl
23564-06-9	C2356406	thiophanate ethyl
2371-42-8	C2371428	methylisoborneol,2-
2385-85-5	P2385855	mirex
23950-58-5	S2395058	Pronamide
2409-55-4	C2409554	butyl-p-cresol,2-tert-
2425-06-1	C2425061	captafol
2439-01-2	C2439012	quinomethionate
2439-10-3	C2439103	dodine
2460-49-3	C2460493	dichloroguaiacol,4,5-
24683-00-9	C2468300	isobutyl-3-methoxypyrazine,2-
2491-38-5	C2491385	busan 90
25136-55-4	C2513655	dimethyl-1,3-dioxane,2,4-
25154-52-3	C2515452	nonylphenol
25155-18-4	C2515518	benzethonium chloride, methyl-
25167-83-3	C2516783	tetrachlorophenols
25311-71-1	C2531171	amaze
25321-14-6	C2532114	dinitrotoluenes
25321-22-6	C2532122	dichlorobenzenes
25323-30-2	C2532330	dichloroethylenes
25323-89-1	C2532389	trichloroethanes
25340-17-14	M2534017	diethylbenzene isomers
25377-21-3	C2537721	di-tert-butyl-p-cresols
2539-17-5	C2539175	tetrachloroguaiacol,3,4,5,6-
2539-26-6	C2539266	trichlorosyringol
25402-06-6	C2540206	cinerin i
25551-13-7	C2555113	trimethylbenzenes
25567-40-2	C2556740	mono-tert-butyl-p-cresol
25606-41-1	C2560641	propamocarb hydrochloride
25773-40-4	C2577340	isopropyl-3-methoxypyrazine,2-
2593-15-9	C2593159	etridiazole
2611-82-7	C2611827	acid red 18 (c.i.no.16255)
26471-62-5	M2647162	toluenediisocyanate
26530-20-1	C2653020	octhilinone

2655-15-4	C2655154	landrin 2
26628-22-8	C2662822	sodium azide
2668-24-8	S2668248	trichloroguaiacol,4,5,6-
2675-77-6	C2675776	chloroneb
2686-99-9	C2686999	landrin 1
2691-41-0	C2691410	cyclotetramethylenetetranitramine
26952-23-8	C2695223	dichloropropylenes
2763-96-4	C2763964	isoxazolol,5-(aminomethyl)-3-
2764-72-9	C2764729	diquat (as ion)
28258-59-5	C2825859	bromoxylenes
291-64-5	C291645	cycloheptane
29191-52-4	C2919152	anisidines
2921-88-2	M2921882	chlorpyrifos
297-97-2	S297972	Thionazin
298-00-0	S298000	methyl parathion
298-02-2	S298022	phorate (thimet)
298-03-3	C298033	demeton-o
29803-57-4	C2980357	hptms
298-04-4	S298044	Disulfoton
299-84-3	C299843	ronnel
300-76-5	C300765	naled
301-04-2	M301042	Lead acetate
301-12-2	C301122	oxydemeton methyl
3018-12-0	C3018120	dichloroacetonitrile
302-01-2	M302012	hydrazine
302-04-5	C302045	thiocyanate (as ion)
302-70-5	C302705	nitrogen mustard, n-oxide hydrochloride salt
303-34-4	C303344	lasiocarpine
305-03-3	C305033	chlorambucil
3051-11-4	C3051114	direct yellow 4 (c.i.no.24890)
30560-19-1	C3056019	acephate
30746-58-8	D3074658	1,2,3,4-Tetrachlorodibenzo-p-dioxin
309-00-2	P309002	aldrin
311-45-5	C311455	diethylphosphoric acid,o,o-, o-p-nitrophenyl
314-40-9	C314409	bromacil
315-18-4	C315184	mexacarbate
315-74-0	C315740	busan 77
3165-93-3	M3165933	4-Chloro-o-toluidine, hydrochloride
3175-23-3	M3175233	1,2,2-Trichloropropane
3180-09-4	C3180094	butylphenol,2-
319-84-6	P319846	hexachlorocyclohexane,alpha-
319-85-7	P319857	hexachlorocyclohexane,beta-
319-86-8	P319868	hexachlorocyclohexane,delta-
3244-90-4	C3244904	aspon
3252-43-5	C3252435	dibromoacetonitrile
3268-87-9	D3268879	octachlorodibenzodioxin,total
3288-58-2	C3288582	phosphorodithioic acid, o,o-diethyl-s-methyl
329-65-7	C329657	dihydroxy-alpha-((methylamino)methyl)benzyl a
330-54-1	C330541	diuron
330-55-2	C330552	linuron
33089-61-1	C3308961	amitraz
33213-65-9	P3321365	endosulfan II
333-41-5	P333415	diazinon
33423-92-6	D3342392	1,3,6,8-Tetrachlorodibenzo-p-dioxin
3351-05-1	C3351051	acid blue 113 (c.i.no.26360)
3383-96-8	C3383968	temephos
34014-18-1	C3401418	tebuthiuron
3428-24-8	C3428248	dichlorocatechol,4,5-
34375-28-5	C3437528	hae
34465-46-8	C3446546	hexachlorodibenzo-p-dioxin,1,2,3,6,7,8-
35065-27-1	P3506527	2,2',4,4',5,5'-Hexachlorobiphenyl
353-50-4	C353504	carbon oxyfluoride
35367-38-5	C3536738	diflubenzuron
35400-43-2	C3540043	bolstar
3566-10-7	C3566107	amobam

3567-69-9	C3567699	acid red 14 (c.i.no.14720)
357-57-3	C357573	brucine
35822-46-9	D3582246	heptachlorodibenzodioxin,1,2,3,4,6,7,8-
360-68-9	M360689	coprostanol
3689-24-5	S3689245	sulfotepp
3691-35-8	C3691358	chlorophacinone
373-02-4	C373024	nickel(ii) acetate
3734-48-3	C3734483	chlordene
3734-67-6	C3734676	acid red 1 (c.i.no.18050)
37871-00-4	F3787100	hexachlorodibenzofuran,1,2,3,7,8,9-
39001-02-0	F3900102	octachlorodibenzofuran,total
39196-18-4	C3919618	thiofanox
39227-28-6	D3922728	hexachlorodibenzodioxin,1,2,3,4,7,8-
39300-45-3	C3930045	dinocap
39638-32-9	C3963832	propane),2,2'-oxybis(2-chloro-
40321-76-4	D4032176	pentachlorodibenzodioxin,1,2,3,7,8-
40487-42-1	C4048742	pendimethalin
4050-45-7	V4050457	hexene,trans-2-
40596-69-8	C4059669	methoprene
41198-08-7	C4119808	profenofos
4170-30-3	C4170303	crotonaldehyde
41903-57-5	C4190357	tetrachlorodibenzo-p-dioxins
420-56-4	M420564	trimethylfluorosilane
42576-02-3	C4257602	bifenox
42615-29-2	C4261529	las
42874-03-3	C4287403	oxyflurofen
43121-43-3	C4312143	triadimefon
4395-80-6	C4395806	chloro-p-cymene
4466-14-2	C4466142	jasmolin i
4549-40-0	C4549400	N-nitrosomethylvinylamine
460-19-5	C460195	cyanogen
463-40-1	C463401	linolenic acid
465-73-6	P465736	Isodrin
4695-62-9	V4695629	bicyclo[2.2.1]heptane-2-one,
470-82-6	C470826	trimethyl-2-oxabicyclo(2.2.2)octane,1,3,3-
470-90-6	C470906	chlorfenvinfos
479-45-8	C479458	trinitrophenylmethylnitramine
4849-32-5	C4849325	karbutilate
4901-51-3	S4901513	tetrachlorophenol,2,3,4,5-
492-80-8	C492808	auramine
494-03-1	C494031	chlornaphazine
496-72-0	C496720	toluenediamine,3,4-
50-00-0	V50000	formaldehyde
50-07-7	C50077	mitomycin c
50-18-0	C50180	cyclophosphamide
50-29-3	P50293	DDT,4,4'-
50-32-8	B50328	benzo(a)pyrene
50375-10-5	C5037510	trichloroanisole,2,3,6-
504-20-1	C504201	phorone
504-24-5	C504245	aminopyridine,4-
504-29-0	M504290	2-Aminopyridine
504-60-9	M504609	1,3-Pentadiene
505-20-4	C505204	dithiane,1,2-
505-23-7	C505237	dithiane,1,3-
505-29-3	C505293	dithiane,1,4-
50-55-5	C50555	reserpine
505-60-2	C505602	mustard gas
5064-31-3	C5064313	trisodium nitrilotriacetate
506-61-6	C506616	potassium silver cyanide
506-64-9	C506649	silver cyanide
506-68-3	C506683	cyanogen bromide
506-77-4	C506774	cyanogen chloride
509-14-8	C509148	tetranitromethane
510-15-6	P510156	Chlorobenzilate
51026-28-9	C5102628	busan 40

51-03-6	C51036	piperonyl butoxide
5103-71-9	P5103719	chlordane,alpha-
5103-74-2	P5103742	chlordane,gamma-
51-20-7	C51207	bromouracil,5-
51207-31-9	F5120731	tetrachlorodibenzofuran,2,3,7,8-
51-21-8	C51218	fluorouracil,5-
51218-45-2	C5121845	metolachlor
51235-04-2	C5123504	hexazinone
51-28-5	A51285	dinitrophenol,2,4-
514-10-3	C514103	abietic acid
51-43-4	C51434	dihydroxy-alpha-((methylamino)methyl)benzyl a
51-52-5	C51525	propylthiouracil
51630-58-1	C5163058	fenvalerate
51-75-2	C51752	nitrogen mustard
51-79-6	C51796	ethyl carbamate
519-73-3	C519733	triphenylmethane
52-24-4	C52244	tris(1-aziridinyl)phosphine sulfide
52645-53-1	C5264553	permethrin
526-73-8	C526738	trimethylbenzene,1,2,3-
526-75-0	C526750	dimethylphenol,2,3-
52-68-6	P52686	trichlorfon
527-35-5	C527355	tetramethylphenol,2,3,5,6-
52-85-7	S52857	Famphur
52896-95-4	V5289695	trimethyl-heptane,2,3,4-
530-50-7	C530507	diphenylhydrazine,1,1-
531-85-1	C531851	benzidine dihydrochloride
533-74-4	C533744	dazomet
53404-22-1	C5340422	cloprop
53404-62-9	C5340462	metasol j26
5344-82-1	C5344821	chlorophenyl)thiourea,1-(o-
534-52-1	A534521	dinitro-2-methyphenol,4,6-
53469-21-9	P5346921	aroclor-1242
53494-70-5	P5349470	endrin ketone
535-80-8	C535808	chlorobenzoic acid,3-
53-70-3	B53703	dibenz(a,h)anthracene
53-96-3	S53963	Acetylaminofluorene,2-
540-59-0	V540590	dichloroethene,1,2-
540-73-8	M540738	dimethyhydrazine,1,2-
54-11-5	C54115	nicotine
541-53-7	C541537	dithiobiuret,2,4-
541-73-1	B541731	dichlorobenzene,1,3-
542-62-1	C542621	barium cyanide
542-75-6	V542756	dichloropropene,1,3-
542-76-7	C542767	chloropropionitrile,3-
542-88-1	M542881	bis-chloromethyl ether
54460-46-7	C5446046	cycloprate
544-63-8	M544638	myristic acid
544-76-3	C544763	N-hexadecane
544-92-3	C544923	copper cyanide
545-06-2	C545062	trichloroacetonitrile
55-18-5	S55185	N-nitrosodiethylamine
55283-68-6	C5528368	ethalfluralin
55285-14-8	C5528514	carbosulfan
55-38-9	M55389	fenthion
554-00-7	C554007	dichloroaniline,2,4-
55-63-0	C55630	nitroglycerin
55673-89-7	F5567389	heptachlorodibenzofuran,1,2,3,4,7,8,9-
556-88-7	C556887	nitroguanidine
557-19-7	C557197	nickel cyanide
557-21-1	C557211	zinc cyanide
557-40-4	C557404	allyl ether
55-86-7	C55867	nitrogen mustard, hydrochloride salt
55-91-4	C55914	diisopropyl fluorophosphate
55-91-5	M55915	Diisopropylfluorophosphate
56-04-2	C56042	methyl thiouracil

56-23-5	V56235	carbon tetrachloride
563-12-2	M563122	ethion
563-54-2	M563542	dichloropropene,1,2-
563-58-6	C563586	dichloropropylene,1,1-
563-68-8	C563688	thallium (i) acetate
56-38-2	S56382	Ethyl parathion
56-49-5	M56495	methylcholanthrene,3-
56-53-1	C56531	diethylstilbesterol
56-55-3	B56553	benzo(a)anthracene
5655-61-8	M5655618	bornyl acetate
56-57-5	S56575	Nitroquinoline-1-oxide,4-
565-80-0	C565800	dimethyl-3-pentanone,2,4-
56-72-4	C56724	coumaphos
56961-20-7	C5696120	trichlorocatechol,3,4,5-
57055-38-6	C5705538	monochlorodehydroabietic acid
57055-39-7	C5705539	dichlorodehydroabietic acid
57057-83-7	C5705783	trichloroguaiacol,3,4,5-
57-10-3	M57103	hexadecandic acid
57117-31-4	F5711731	pentachlorodibenzofuran,2,3,4,7,8-
57117-41-6	F5711741	pentachlorodibenzofuran,1,2,3,7,8-
57117-44-9	F5711744	hexachlorodibenzofuran,1,2,3,6,7,8-
57-13-6	C57136	urea
57-14-7	C57147	dimethylhydrazine,1,1-
57-24-9	C57249	strychnine
576-26-1	C576261	dimethylphenol,2,6-
57653-85-7	D5765385	hexachlorodibenzodioxin,1,2,3,6,7,8-
57-74-9	P57749	chlordane
57-88-5	M57885	cholesterol (cholest-5-en-3[beta]-ol)
57-97-6	S57976	dimethylbenz(a)anthracene,7,12-
58-08-2	C58082	caffeine
5829-48-1	C5829481	dichlorostearic acid,9,10-
5835-26-7	C5835267	isopimaric acid
584-79-2	C584792	allethrin
584-84-9	C584849	toluene diisocyanate,2,4-
5850-86-2	C5850862	acid orange 8 (c.i.no.15575)
585-34-2	C585342	dimethylethyl)phenol,3-(1,1-
58802-08-7	C5880208	pentachlorodibenzo-p-dioxin,1,2,4,7,8-
58-89-9	P58899	hexachlorocyclohexane,gamma-
58-90-2	S58902	tetrachlorophenol,2,3,4,6-
5902-51-2	C5902512	terbacil
591-08-2	C591082	acetyl-2-thiourea,1-
591-27-5	C591275	aminophenol,3-
5915-41-3	C5915413	terbuthylazine
591-78-6	V591786	hexanone,2-
592-01-8	C592018	calcium cyanide
593-45-3	C593453	N-octadecane
594-20-7	C594207	dichloropropane,2,2-
594-42-3	C594423	perchloromethyl mercaptan
59-50-7	A59507	chloro-3-methylphenol,4-
598-31-2	C598312	bromoacetone
598-77-6	M598776	1,1,2-Trichloropropane
59-89-2	S59892	N-nitrosomorpholine
60-00-4	C60004	ethylenediaminetetraacetic acid
60-11-7	S60117	Dimethylaminobenzene,p-
6012-97-1	C6012971	tetrachlorothiophene
60168-88-9	C6016888	fenarimol
60-29-7	C60297	ethyl ether
60-33-3	C60333	linoleic acid
60-34-4	M60344	methyl hydrazine
60-51-5	S60515	dimethoate
60-57-1	P60571	dieldrin
606-20-2	B606202	dinitrotoluene,2,6-
60851-34-5	F6085134	hexachlorodibenzofuran,2,3,4,6,7,8-
608-73-1	M608731	hexachlorocyclohexane-tech grade
608-93-5	S608935	pentachlorobenzene

611-14-3	C611143	ethyltoluene,2-
614-61-9	C614619	chlorophenoxyacetic acid,o-
615-53-2	C615532	N-nitroso-n-methylurethane
616-23-9	M616239	2,3-Dichloro-1-propanol
61-73-4	C61734	methylene blue
617-94-7	M617947	phenyl 2-propanol,2-
61-82-5	C61825	amitrole
620-14-4	M620144	ethyltoluene isomers
62016-19-7	V6201619	ethyl-2-methyl-octane,6-
62016-37-9	V6201637	trimethyl-octane,2,4,6-
620-17-7	C620177	ethylphenol,3-
621-64-7	B621647	N-nitroso-di-n-propylamine
6227-14-1	C6227141	direct violet 9 (c.i.no.27885)
622-96-8	C622968	ethyltoluene,4-
622-97-9	C622979	methylstyrene,4-
6236-88-0	V6236880	ethyl-4-methyl-cyclohexane,1-
62-38-4	C62384	phenylmercury acetate
62-44-2	S62442	Phenacetin
624-83-9	C624839	isocyanic acid, methyl ester
624-92-0	M624920	dimethyl disulfide
62-50-0	S62500	Ethyl methanesulfonate
62-53-3	B62533	aniline
62-55-5	C62555	thioacetamide
62-56-6	M62566	thiourea
62-73-7	C62737	dichlorvos
62-74-8	C62748	fluoroacetic acid, sodium salt
62-75-9	B62759	N-nitroso-dimethylamine
6282-00-4	C6282004	dipropylformamide
628-78-7	C628787	N-heptadecane
628-86-4	C628864	mercury fulminate
629-59-4	C629594	N-tetradecane
630-01-3	C630013	N-hexacosane
630-02-4	C630024	N-octacosane
630-08-0	M630080	carbon monoxide
630-10-4	C630104	selenourea
630-20-6	V630206	Tetrachloroethane,1,1,1,2-
63-25-2	P63252	carbaryl
633-96-5	C633965	acid orange 7 (c.i.no.15510)
634-66-2	C634662	tetrachlorobenzene,1,2,3,4-
634-90-2	C634902	tetrachlorobenzene,1,2,3,5-
634-93-5	C634935	trichloroaniline,2,4,6-
6358-53-8	C6358538	citrus red no. 2
6359-98-4	C6359984	acid yellow 17 (c.i.no.18965)
636-21-5	M636215	o-toluidine hydrochloride
637-50-3	C637503	propenylbenzene
6379-37-9	C6379379	octylammonium methanearsonate
6385-62-2	C6385622	diquat dibromide, monohydrate
640-19-7	C640197	fluoroacetamide,2-
6406-56-0	C6406560	acid red 151 (c.i.no.26900)
64-17-5	C64175	ethanol
64-18-6	C64186	formic acid
64-19-7	C64197	acetic acid
6423-72-9	C6423729	calcium methanearsonate
645-56-7	C645567	propylphenol,4-
646-31-1	C646311	N-tetracosane
6484-52-2	C6484522	ammonium nitrate
6533-73-9	C6533739	thallium carbonate
65-71-4	C65714	thymine
65724-12-1	C6572412	dichloro-p-cymene
65-85-0	A65850	benzoic acid
66-22-8	C66228	uracil
66-27-3	S66273	Methyl methanesulfonate
66-75-1	C66751	uracil mustard
66-81-9	C66819	cycloheximide
67-48-1	C67481	choline chloride

67-56-1	M67561	methanol
67562-39-4	F6756239	heptachlorodibenzofuran,1,2,3,4,6,7,8-
67-63-0	M67630	isopropanol
67-64-1	V67641	acetone
67-66-3	V67663	chloroform
67-72-1	B67721	hexachloroethane
67786-14-5	C6778614	acid red 337 (c.i.no.na)
68-12-2	C68122	dimethylformamide
68330-44-9	C6833044	methylisoborneol
684-93-5	M684935	N-nitroso-n-methylurea
6876-23-9	V6876239	1,2-dimethyl-cyclohexane
692-42-2	C692422	diethyl arsine
696-28-6	C696286	dichlorophenylarsine
697-82-5	C697825	trimethylphenol,2,3,5-
698-71-5	C698715	ethyl-5-methylphenol,3-
7005-72-3	B7005723	chlorophenyl-phenylether,4
70-25-7	C70257	MNNG
70-30-4	S70304	hexachlorophene
70648-26-9	F7064826	hexachlorodibenzofuran,1,2,3,4,7,8-
709-98-8	C709988	propanil
71-23-8	C71238	propyl alcohol,n-
71-30-7	C71307	cytosine
71-36-3	M71363	butyl alcohol
71-41-0	C71410	amyl alcohol
71-43-2	V71432	benzene
71-50-1	C71501	acetate (as ion)
71-55-6	V71556	trichloroethane,1,1,1-
7166-19-0	C7166190	giv-gard
72-20-8	P72208	endrin
72-43-5	P72435	methoxychlor
72-54-8	P72548	DDD,4,4'-
72-55-9	P72559	DDE,4,4'-
72-56-0	C72560	perthane
72-57-1	C72571	trypan blue
7287-19-6	C7287196	prometryn
732-11-6	C732116	phosmet
73-24-5	C73245	adenine
73-40-5	C73405	guanine
74-11-3	C74113	chlorobenzoic acid,4-
741-58-2	C741582	bensulide
7421-43-4	P7421434	endrin aldehyde
7421-93-4	C7421934	endrin aldehyde
7446-08-4	C7446084	selenium dioxide
7446-18-6	C7446186	thallium (i) sulfate
7446-27-7	C7446277	lead phosphate
7446-34-6	C7446346	selenium sulfide
7447-39-4	C7447394	copper (ii) chloride
74-83-9	V74839	bromomethane
74-87-3	V74873	chloromethane
74-88-4	V74884	Iodomethane
74-89-5	M74895	methylamine
74-90-8	C74908	hydrogen cyanide
74-93-1	M74931	methanethiol
74-95-3	V74953	methylene bromide
74-97-5	V74975	bromochloromethane
75-00-3	V75003	chloroethane
75-01-4	V75014	vinyl chloride
75-04-7	C75047	ethylamine
75-05-8	V75058	acenonitrile
75-07-0	M75070	acetaldehyde
75-09-2	V75092	methylene chloride
75-15-0	V75150	carbon disulfide
75-18-3	M75183	dimethyl sulfide
75-21-8	M75218	ethylene oxide
75-25-2	V75252	bromoform

75-27-4	V75274	bromodichloromethane
75-34-3	V75343	dichloroethane,1,1-
75-35-4	V75354	dichloroethene,1,1-
75-36-5	C75365	acetyl chloride
75-44-5	C75445	phosgene
75-45-6	C75456	chlorodifluoromethane
75-55-8	C75558	propylenimine,1,2-
75-56-9	M75569	propylene oxide
75-60-5	C75605	cacodylic acid
75-69-4	V75694	trichlorofluoromethane
75-71-8	V75718	dichlorodifluoromethane
757-58-4	C757584	hexaethyl tetraphosphate
75-86-5	C75865	acetone cyanohydrin
75-87-6	C75876	chloral
759-73-9	M759739	N-nitroso-n-ethylurea
75-99-0	C75990	dalapon
759-94-4	C759944	eptc
76-01-7	S76017	Pentachloroethane
76-06-2	C76062	chloropicrim
76-13-1	V76131	Freon 113
76-22-2	V76222	camphor
764-41-0	M764410	1,4-Dichloro-2-butene
76-44-8	P76448	heptachlor
7647-01-0	M7647010	hydrochloric acid
7647-14-5	C7647145	sodium chloride
765-34-4	M765344	Glycidylaldehyde
7664-38-2	C7664382	phosphoric acid
7664-39-3	C7664393	hydrogen fluoride
7664-93-9	C7664939	sulfuric acid
7667-60-9	V7667609	trimethyl-cyclohexane,1,2,4-
7696-12-0	C7696120	tetramethrin
7697-37-2	C7697372	nitric acid
7700-17-6	C7700176	crotoxyphos
7718-54-9	C7718549	nickel chloride
7726-95-6	C7726956	bromine
7738-94-5	C7738945	chromic acid
77-47-4	B77474	hexachlorocyclopentadiene
7757-82-6	C7757826	sodium sulfate
7758-89-6	C7758896	copper (i) chloride
7758-97-6	M7758976	lead chromate
77-71-4	C77714	dimethylhydantoin,5,5-
77-73-6	C77736	dicyclopentadiene
7775-11-3	M7775113	sodium chromate
77-78-1	M77781	dimethyl sulfate
7778-39-4	C7778394	arsenic acid,ortho-
7779-27-3	C7779273	vancide th
7782-63-0	C7782630	ferrous sulfate, heptahydrate
7783-00-8	C7783008	selenious acid
7783-06-4	M7783064	hydrogen sulfide
7786-34-7	M7786347	crotonic acid
7786-81-4	C7786814	nickel sulfate
7789-00-6	C7789006	potassium chromate
7789-89-1	M7789891	1,1,1-Trichloropropane
7791-12-0	C7791120	thallium (i) chloride
78-00-2	C78002	tetraethyllead
7803-51-2	C7803512	phosphine
7803-55-6	C7803556	ammonium vanadate
78-11-5	C78115	pentaerythritol tetranitrate
78-34-2	C78342	dioxathion
78-40-0	C78400	triethyl phosphate
78-48-8	M78488	def
78-59-1	B78591	isophorone
786-19-6	M786196	trithion
78-78-4	C78784	methylbutane,2-
78-83-1	V78831	Isobutyl alcohol

78-87-5	V78875	dichloropropane,1,2-
78-93-3	V78933	butanone,2-
78-99-9	M78999	1,1-Dichloropropane
79-00-5	V79005	trichloroethane,1,1,2-
79-01-6	V79016	trichloroethene (TCE)
79-06-1	M79061	acrylamide
79-09-4	C79094	propanoic acid
79-10-7	C79107	acrylic acid
79-19-6	C79196	thiosemicarbazide
79-20-9	C79209	methyl acetate
79-22-1	C79221	methyl chlorocarbonate
79-34-5	V79345	tetrachloroethane,1,1,2,2-
79-44-7	C79447	dimethylcarbamoyl chloride
79-46-9	C79469	nitropropane,2-
8001-35-2	P8001352	toxaphene
8001-54-5	C8001545	hyamine 3500
8001-58-9	C8001589	creosote
8003-34-7	C8003347	pyrethrum
8003-42-7	C8003427	vancide 51z
8005-72-9	C8005729	direct yellow 28 (c.i.no.19555)
8006-39-1	M8006391	terpineol
8007-45-2	M8007452	Coal tar
80-15-9	M80159	alpha,alpha-Dimethylbenzylhydroperoxide
8018-01-7	C8018017	mancozeb
8021-39-4	M8021394	creosote
8030-30-6	C8030306	naphtha
80-56-8	V80568	pinene,alpha-
80-62-6	S80626	Methyl methacrylate
8065-48-3	P8065483	dementon
80-97-7	M80977	cholestanol
81-07-2	C81072	saccharin
815-24-7	V815247	tetramethyl-3-pentanone,2,2,4,4
81-81-2	C81812	warfarin
823-40-5	C823405	toluenediamine,2,6-
82-66-6	C82666	diphacinone
82-68-8	S82688	Pentachloronitrobenzene
83-26-1	C83261	pindone
83-32-9	B83329	acenaphthene
834-12-8	C834128	ametryn
83463-62-1	C8346362	bromochloroacetonitrile
83-79-4	C83794	rotenone
84-15-1	M84151	terphenyl,o-
84-66-2	B84662	diethylphthalate
84-69-5	C84695	diisobutyl phthalate
84-74-2	B84742	di-n-butylphthalate
85-00-7	C85007	diquat dibromide
85-01-8	B85018	phenanthrene
85-44-9	C85449	phthalic anhydride
85-68-7	B85687	butylbenzylphthalate
86-30-6	B86306	N-nitrosodiphenylamine
86-50-0	P86500	guthion
86-73-7	B86737	fluorene
86-74-8	M86748	carbazole
86-88-4	C86884	naphthyl-2-thiourea,1-
87-08-1	C87081	oratren
873-49-4	C873494	cyclopropylbenzene
87-40-1	C87401	trichloroanisole,2,4,6-
87-59-2	C87592	dimethylaniline,2,3-
87-61-6	C87616	trichlorobenzene,1,2,3-
87-62-7	C87627	dimethylaniline,2,6-
87-65-0	M87650	dichlorophenol,2,6-
87-68-3	B87683	hexachlorobutadiene
87-86-5	A87865	pentachlorophenol
88-06-2	A88062	trichlorophenol,2,4,6-
882-09-7	C882097	clofibric acid

88-60-8	C88608	butyl-m-cresol,6-tert-
886-50-0	C886500	terbutryn
88-73-3	C88733	chloro-2-nitrobenzene,1-
88-74-4	B88744	nitroaniline,2-
88-75-5	A88755	o-nitrophenol
88-85-7	S88857	sec-Butyl-4,6-dinitrophenol,2
88-89-1	C88891	picric acid
88-99-3	C88993	phthalic acid
89-62-3	C89623	methyl-2-nitroaniline,4-
90-00-6	C90006	ethylphenol,2-
9002-89-5	C9002895	polyvinyl alcohol
9003-07-0	M9003070	polypropylene
90-04-0	C90040	anisidine,2-
9004-66-4	C9004664	iron-dextran
9004-70-0	C9004700	nitrocellulose
90-05-1	S90051	methoxyphenol,2-
9006-42-2	C9006422	metiram
90-12-0	C90120	methylnaphthalene,1-
90-13-1	C90131	chloronaphthalene,1-
90-15-3	C90153	naphthol,alpha-
90-43-7	C90437	phenylphenol
91-08-7	C91087	toluene diisocyanate,2,6-
91-16-7	C91167	veratrole
91-20-3	B91203	naphthalene
91-53-2	C91532	ethoxyquin
91-57-6	B91576	methylnaphthalene,2-
91-58-7	B91587	chloronaphthalene,2-
91-59-8	M91598	naphthylamine,2-
91-63-4	C91634	quinaldine
91-66-7	C91667	diethylaniline,n,n-
91-80-5	S91805	Methapyrilene
91-94-1	B91941	dichlorobenzidine,3,3'-
92-06-8	M92068	m-terphenyl
92-26-2	C92262	acridine yellow
924-16-3	S924163	n-nitrosodi-n-butylamine
92-52-4	M92524	biphenyl
925-93-9	M925939	ethanol
92-67-1	S92671	aminobiphenyl,4-
92-84-2	C92842	nemazine
92-87-5	B92875	benzidine
92-93-3	C92933	nitrobiphenyl,4-
92-94-4	M92944	p-terphenyl
930-55-2	S930552	N-nitrosopyrrolidine
93-3755	M933755	trichlorophenol,2,3,6-
933-88-0	C933880	methylbenzoyl chloride,2-
935-95-5	C935955	tetrachlorophenol,2,3,5,6-
93-65-2	P93652	chloro-2-methylphenoxy)-propanoic acid,2-(4-
93-72-1	P93721	trichlorophenoxy)propionic acid,2-(2,4,5-
93-76-5	P93765	trichlorophenoxyacetic acid,2,4,5-
944-22-9	C944229	fonofos
94-58-6	C94586	dihydrosafrole
94-59-7	S94597	Safrole
94-74-6	P94746	Chloro-2-methylphenoxy)-acetic acid,(4-
94-75-7	P94757	dichlorophenoxyacetic acid,2,4-
94-81-5	C94815	mcpb
94-82-6	C94826	db,2,4-
950-37-8	C950378	methidathion
95-06-7	C95067	sulfallate
95-13-6	C95136	indene
95-15-8	C95158	benzothiophene
95-47-6	V95476	xylene,o-
95-48-7	A95487	methylphenol,2-
95-49-8	C95498	chlorotoluene,o-
95-50-1	B95501	dichlorobenzene,1,2-
95-53-4	S95534	Toluidine,o-

95-54-5	C95545	phenylenediamine,1,2-
95-55-6	C95556	aminophenol,2-
95-57-8	A95578	chlorophenol,2-
95-63-6	M95636	trimethylbenzene isomers
95-64-7	C95647	dimethylaniline,3,4-
95-65-8	C95658	dimethylphenol,3,4-
95-68-1	C95681	dimethylaniline,2,4-
95-69-2	C95692	chloro-2-methylbenzenamine,4-
95-70-5	C95705	toluenediamine,2,5-
957-51-7	C957517	diphenamid
95-78-3	C95783	dimethylaniline,2,5-
95-80-7	M95807	toluene-2,4-diamine
95-87-4	C95874	dimethylphenol,2,5-
95-94-3	S95943	tetrachlorobenzene,1,2,4,5-
95-95-4	A95954	trichlorophenol,2,4,5-
959-98-8	P959988	endosulfan I
96-12-8	V96128	DBCP (1,2-Dibromo-3-chloropropane)
96-18-4	V96184	Trichloropropane,1,2,3-
96-22-0	C96220	diethyl ketone
96-23-1	M96231	1,3-Dichloro-2-propanol
96-33-3	C96333	methyl acrylate
96-37-7	M96377	methylcyclopentane
96-45-7	M96457	ethylene thiourea
97-23-4	C97234	dichlorophene
97-63-2	C97632	ethyl methacrylate
97-63-21	S976321	Ethyl methacrylate
98-01-1	C98011	furfurol
98-05-5	C98055	benzenearsonic acid
98-06-6	C98066	butylbenzene,tert-
98-07-7	C98077	benzotrichloride
98-09-9	M98099	Benzenesulfonyl chloride
98-54-4	S98544	Dimethylethyl)phenol,4(1,1-
98-55-5	C98555	terpineol,alpha-
98-57-7	C98577	chlorophenyl methyl sulfone,4-
98-82-8	M98828	cumene
98-83-9	C98839	methylstyrene,alpha-
98-86-2	S98862	Acetophenone
98-87-3	C98873	benzal chloride
98-88-4	C98884	benzenecarbonyl chloride
98-95-3	B98953	nitrobenzene
99-09-2	B99092	nitroaniline,3-
99-30-9	C99309	dichloran
99-35-4	S99354	Trinitrobenzene,sym-
99-55-8	S99558	Nitro-o-toluidine,5-
99-65-0	S99650	Dinitrobenzene,1,3-
99-87-6	V99876	cymene,p-
99-89-8	C99898	isopropyl phenol,4-
99-96-7	C99967	hydroxybenzoic acid,4-
99-99-0	C99990	nitrotoluene,4-

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